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19 September 2006

Mr. Russell D. Hart
Remedial Project Manager (SR-6J)
U.S. Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, IL 60604

RFW Work Order No. 13471.003.001
TRONOX Work Order No. 40-50-01-AKW-AE

Re: 2nd Quarter 2006 Groundwater Monitoring Report
Moss-American Site, Milwaukee, WI

Dear Mr. Hart:

Enclosed is the groundwater monitoring report for the 2nd quarter of 2006. Should you have any questions or comments, please contact me at (847) 918-4142 or Keith Watson at (405) 775-5475.

Very truly yours,

WESTON SOLUTIONS, INC.

Thomas P. Graan, Ph.D.
Principal Project Manager

TPG/tg

cc: T. Wentland, WDNR
K. Watson, KMC



**QUARTERLY GROUNDWATER TREATMENT
PERFORMANCE MONITORING REPORT
Q2 2006
MOSS-AMERICAN SITE
MILWAUKEE, WISCONSIN**

Prepared for

TRONOX, LLC
123 Robert S. Kerr Avenue
Oklahoma City, OK 73102

Prepared by

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September 2006

W. O. No. 13741.003.001.0010

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June 2006 Groundwater Sample Analytical Results

SECTION 1 INTRODUCTION

In accordance with paragraph 4a of the Remedial Design/Remedial Action Statement of Work (RD/RA SOW), Tronox LLC (TRONOX), formerly known as Kerr-McGee Chemical, LLC, is required to implement a groundwater monitoring program capable of detecting changes in chemical concentrations in the groundwater. TRONOX has directed Weston Solutions, Inc. (WESTON®) to perform this work. As previously agreed, the monitoring network currently includes seven shallow groundwater monitoring wells (MW-5S, MW-6S, MW-7S, MW-9S, MW-27S, MW-28S, and MW-29S). Additionally, the quarterly groundwater monitoring program includes sampling of the eight containment performance monitoring wells (MW-30S, MW-31S, MW-32S, MW-33S, MW-34S, MW-35S, MW-36S and MW-37S), which are screened in the shallow groundwater-bearing unit underlying the site. Nine piezometer wells (PZ-01, PZ-02, PZ-03, PZ-04, PZ-05, PZ-06, PZ-07, PZ-09, and PZ-10) and one staff gauge (SG-01) were installed in December 2002 to monitor groundwater movement. The locations of piezometers, the staff gauge, and the groundwater-monitoring wells that are included in the quarterly sampling program are indicated on Figure 1-1.

In addition to the on-site groundwater monitoring wells, four shallow groundwater monitoring wells (MW-A, MW-B, MW-C and MW-D) were installed in September 2003 to monitor groundwater conditions between old and new river channels in the Reach 1. These four wells are sampled annually (during Q3 sampling events) in accordance with the annual groundwater monitoring program for the Reach 1 area.

In December 2004, seven additional shallow groundwater monitoring wells (MW-E, MW-F, MW-G, MW-H, MW-I, MW-J and MW-K) were installed to monitor groundwater conditions between old and new river channels in the Reaches 2 and 3. These seven wells are sampled annually (during Q3 sampling events) in accordance with the annual groundwater monitoring program for the Reaches 2 and 3.

Some wells that were previously part of the groundwater-monitoring network have been removed to facilitate soil remediation activities. TW-09, MW-8S, and MW-8I were removed during excavation activities and installation of the funnel-and-gate groundwater treatment system in 1999. Wells MW-4S and MW-4I were removed during early Q3 2001, and well TW-05 was removed in early Q4 2001 during the “hot spot” soil excavation and treatment process. Wells MW-20S and MW-20I were removed during Q3 2002 when the Little Menomonee River (LMR) diversion work took place.

As discussed in the Q2 2002 Quarterly Groundwater Treatment Performance Monitoring Report, some modifications were made to the sampling program. The first modification was the reduction of performance monitoring well sampling frequency. The treatment performance monitoring wells were originally sampled on a monthly basis, but sample data showed that minimal changes in site conditions were found on a monthly basis. Therefore a change in sampling frequency from monthly to quarterly was recommended. This recommendation was approved by the Wisconsin Department of Natural Resources (WDNR) and the United States Environmental Protection Agency (collectively “Agencies”) and the monthly sampling program was discontinued after the October 2002 sampling event. The second modification was the reduction of the groundwater monitoring program scope. It was proposed that some shallow monitoring wells (MW-3S, MW-10S, MW-13S, MW-25S, MW-26S, and MW-20S) and intermediate monitoring wells (MW-3I, MW-7I, MW-9I, and MW-20I) be removed from the groundwater monitoring program due to zero or few sample detections in these wells. The Agencies approved this recommendation, and the sampling of these wells was discontinued after the September (Q3) 2002 sampling event; however, per the Agencies’ request, these wells were not abandoned, with the exception of MW-20S and MW-20I abandoned during LMR diversion. Instead these wells are utilized to collect water level measurements for the production of more accurate quarterly groundwater potentiometric maps.

The Quality Assurance Project Plan for Installation of Groundwater Remedial System (QAPP) (WESTON, October 1999) requires TRONOX to implement a groundwater monitoring program capable of indicating groundwater chemistry before, during, and after treatment. In addition, the hydraulic gradient is calculated at each treatment gate and is used to estimate groundwater flow

velocity through the treatment gate remediation system. The monitoring network includes six groundwater treatment gates (TG1 through TG6) with three treatment performance monitoring wells located at each groundwater treatment gate. The treatment performance monitoring wells include TG1-1, TG1-2, TG1-3, TG2-1, TG2-2, TG2-3, TG3-1, TG3-2, TG3-3, TG4-1, TG4-2, TG4-3, TG5-1, TG5-2, TG5-3, TG6-1, TG6-2, and TG6-3. The locations of the treatment performance monitoring wells are indicated on Figure 1-1.

In accordance with paragraph 4a (i) of the RD/RA SOW, the quarterly field measurement and analysis of groundwater samples collected from the shallow and containment performance groundwater monitoring wells include groundwater elevation, pH, temperature, turbidity, specific conductance, oxidation-reduction (redox) potential, and dissolved oxygen (DO). Required laboratory analyses include benzene, toluene, ethylbenzene, and xylene (BTEX collectively) and the following polynuclear aromatic hydrocarbon (PAH) compounds: acenaphthylene, acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluorene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene.

In accordance with Addendum No. 1 to the QAPP (WESTON, May 2001), the quarterly field measurements for samples collected from the treatment performance monitoring wells include groundwater elevation, pH, temperature, turbidity, specific conductance, redox potential, and DO. Quarterly laboratory analyses required for the treatment performance wells include microbial enumeration, nitrate-nitrogen ($\text{NO}_3\text{-N}$), nitrite-nitrogen ($\text{NO}_2\text{-N}$), total Kjeldahl nitrogen (TKN), ammonia-nitrogen ($\text{NH}_3\text{-N}$), total phosphate-phosphorous ($\text{PO}_4\text{-P}$), orthophosphate (ORP), biochemical oxygen demand (BOD), chemical oxygen demand (COD), total organic carbon (TOC), BTEX, and the PAHs indicated in the above paragraph.

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- SAMPLING MANHOLE
- ◆ MONITORING WELL
- INJECTION WELL
- - - CURRENT RIVER CHANNEL
- - - FORMER RIVER CHANNEL
- ⊕ PIEZOMETER

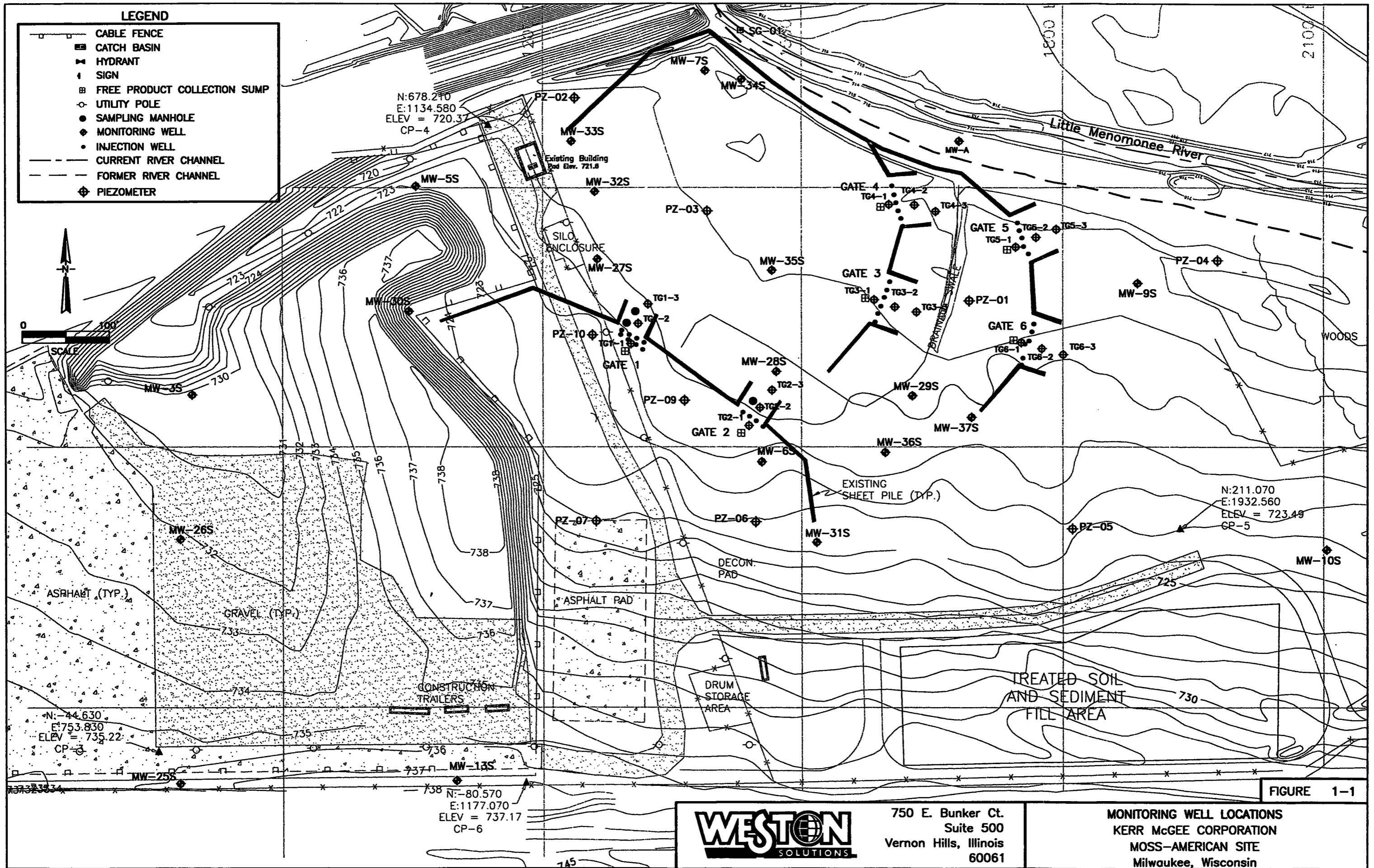


FIGURE 1-1



750 E. Bunker Ct.
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MONITORING WELL LOCATIONS
KERR MCGEE CORPORATION
MOSS-AMERICAN SITE
Milwaukee, Wisconsin

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SECTION 2

ON-SITE GROUNDWATER MONITORING RESULTS

The Q2 2006 groundwater-monitoring event at the Moss-American site was completed between 26 and 28 June 2006. Tasks completed during the field effort for this event included the collection of groundwater elevation and DO data from the shallow groundwater monitoring, containment performance monitoring, and treatment performance monitoring wells referenced in Section 1. Following groundwater elevation and DO measurements, groundwater samples were collected from the shallow, containment performance, and treatment performance monitoring wells. The results of the Q2 2006 groundwater sampling event are described in the following subsections.

2.1 GROUNDWATER ELEVATION MEASUREMENTS

Depth to water measurements in each of the shallow groundwater monitoring, containment performance monitoring, treatment performance monitoring, and piezometers were made on 26 June 2006. These measurements were used to determine the elevation of the potentiometric surface within the shallow groundwater-bearing zone underlying the site. The water level measurements for the shallow groundwater monitoring and containment performance monitoring wells and calculated elevations are presented in Table 2-1. The groundwater level measurements and corresponding groundwater elevations, calculated hydraulic gradients across the treatment gates, and estimated groundwater flow velocities through the treatment gates are presented in Table 2-2. The groundwater levels for the piezometers are presented in Table 2-3. The staff gauge that was damaged between the Q1 and Q2 2005 sampling events is still awaiting repair and was not read in Q2 2006. Figure 2-1 presents a potentiometric surface map of the shallow groundwater-bearing zone, based on the June 2006 data. Figure 2-2 presents the groundwater potentiometric surface elevations during Q1 2006. An evaluation of the Q2 2006 potentiometric surface map is presented below.

As shown in Figure 2-1, the groundwater within the shallow groundwater-bearing zone generally flows northeastward toward the LMR. In the topographically higher (western) portion of the site, the horizontal hydraulic gradient is relatively steep, at approximately 0.029 feet per foot (ft/ft) to the northeast, as measured from the vicinity of MW-13S to PZ-07. The topography of the site

levels out near the river, as does the potentiometric surface with a northerly hydraulic gradient of approximately 0.019 ft/ft, as measured from the vicinity of PZ-05 to the vicinity of MW-9S. The estimated hydraulic gradients within the treatment gates ranged from 0.0003 to 0.0049 ft/ft (Table 2-2). The hydraulic gradient is relatively flat within the treatment gate area with an overall hydraulic gradient from TG1 to TG5 of approximately 0.0014 ft/ft in an easterly direction.

The average velocity of groundwater flow within the shallow water-bearing zone can be calculated using the following equation:

$$v = Ki/n$$

where:

v = groundwater velocity

K = hydraulic conductivity (also referred to as the coefficient of permeability)

i = hydraulic gradient

n = porosity

Based on slug tests performed on wells installed during the remedial investigation (RI), the hydraulic conductivity of the deposits located on the topographically higher, western portion of the site were in the range of 1×10^{-5} to 1×10^{-6} centimeters per second (cm/s) (0.03 to 0.003 feet per day [ft/day]). Based on laboratory-performed hydraulic conductivity analyses conducted on material used to backfill areas of the site located along the LMR, the hydraulic conductivity of soils located in the topographically lower portion of the site within the funnel-and-gate remedial system is approximately 1×10^{-3} cm/s (3 ft/day). Using a hydraulic gradient of 0.029 ft/ft, an assumed effective porosity of 0.3, and a hydraulic conductivity of 0.03 ft/day, the groundwater flow velocity in the western portion of the site is calculated to be approximately 0.0029 ft/day. Near the river, using a hydraulic gradient of 0.019 ft/ft, a porosity of 0.3, and a hydraulic conductivity of 3 ft/day, the velocity of groundwater flow is calculated to be approximately 0.19 ft/day. The groundwater flow velocities within the treatment gates are estimated to range from 0.0028 to 0.046 ft/day. The groundwater flow velocity through each treatment gate is presented in Table 2-2.

2.2 GROUNDWATER SAMPLE ANALYTICAL RESULTS

Groundwater samples were collected from a total of 33 shallow monitoring wells screened within the shallow groundwater-bearing unit. The shallow wells sampled include seven shallow groundwater monitoring wells (MW-5S, MW-6S, MW-7S, MW-9S, MW-27S, MW-28S, and MW-29S); eight containment performance monitoring wells (MW-30S, MW-31S, MW-32S, MW-33S, MW-34S, MW-35S, MW-36S and MW-37S); and eighteen treatment performance monitoring wells (TG1-1, TG1-2, TG1-3, TG2-1, TG2-2, TG2-3, TG3-1, TG3-2, TG3-3, TG4-1, TG4-2, TG4-3, TG5-1, TG5-2, TG5-3, TG6-1, TG6-2, and TG6-3).

In addition to the investigative groundwater samples collected, three field sample duplicate, two matrix spike/matrix spike duplicate (MS/MSD), and three field blank (identified by an FB prefix) samples were collected for quality assurance/quality control (QA/QC) purposes. Trip blanks accompanied each cooler of sample containers from the laboratory to the site and were shipped back to the laboratory within each cooler containing volatile organic compound (VOC) samples.

All groundwater samples were field screened and laboratory analyzed for the parameters indicated in Section 1.

2.2.1 Field-Measured Parameters

The groundwater samples were measured in the field for pH, specific conductance, temperature, redox potential, DO, and turbidity. The field parameters were collected using a YSI 556 portable water quality meter and a HS Scientific DRT-15CE turbidimeter. Downhole DO readings were collected from monitoring wells after sampling at a given well was completed. The groundwater pH, redox potential, specific conductance, temperature, and turbidity were monitored during well purging prior to sampling. The final (stabilized) values for these measurements prior to sample collection are presented in Table 2-4. Water quality parameter measurements were not collected from well TG1-1 and MW-34S due to the presence, or the historical presence, of sheen or product in the purge water during Q2 2006.

2.2.1.1 pH

The pH of the groundwater samples collected during Q2 2006 ranged from 6.45 to 7.25 pH standard units (S.U.). pH is an important factor in determining the feasibility of bioremediation of contaminants in the site groundwater because biological systems typically function only in narrow pH ranges (typically 6.5 to 8.5 S.U.), and because microbial growth rates are pH dependent.

2.2.1.2 Redox Potential

The redox potentials of the groundwater samples collected at the site during Q2 2006 ranged from -136.9 to 45.1 millivolts (mV). Redox potential indicates the capability of the groundwater to promote chemical oxidation-reduction processes that consume organic matter and ultimately oxidize organic compounds. Microorganisms typically act as catalysts in oxidation reactions, and as such, the redox potential indicates the potential for the groundwater to oxidize the contaminants present.

Since environmental systems are typically not in equilibrium, the redox potential is used as a gross indicator of the state of oxidation-reduction in the system. Oxidation-reduction rates in the system are greater as the redox potential increases in magnitude. A positive redox potential typically indicates conditions where oxidized ionic species (i.e., NO_3^- , SO_4^{2-} , and Fe^{3+}) predominate in comparison to their reduced counterparts (NH_4^+ , S^{2-} , and Fe^{2+} , respectively). Once DO is removed from water (i.e., via biodegradation of organics), oxidized ionic species become electron acceptors in redox processes. As the processes continue under anaerobic conditions, the reduced ionic species concentration increases, resulting in an overall decrease of the water's oxidation potential.

2.2.1.3 Dissolved Oxygen

DO levels for the groundwater samples collected during Q2 2006 ranged from 0.01 to 5.18 milligrams per liter (mg/L) with three levels above 2.0 mg/L. Overall, the DO readings indicate the presence of low to intermediate levels of oxygen in the water, and the system as a whole is

considered to be generally under suboxic conditions. DO promotes the growth of aerobic and facultative bacteria and the production of readily assimilated nutrients. All of these factors are required to facilitate the oxidation reaction responsible for removing the contaminants from the groundwater under aerobic conditions.

2.2.1.4 Specific Conductance

The specific conductance, or conductivity, of the groundwater samples collected during Q2 2006 ranged from 0.31 to 2.188 millimhos per centimeter (mmho/cm). Conductivity of water is a measure of the ability of the solution to carry an electrical current that is transported by ions in the solution; therefore, conductivity is used as an indicator of the total dissolved solids (TDS) present in a water sample. As the dissolved solids content of a solution increases, the capacity for the water to transmit electrical current increases. Although conductivity is a measure of the aggregate dissolved solids in the water it may be correlated to the readily available nutrient levels in the water, since TDS includes nitrate, nitrite, ammonium, and phosphate ions.

2.2.1.5 Temperature

Groundwater temperatures ranged from 10.92 to 14.23 degrees Celsius (°C) during Q2 2006. Temperature is an extremely important factor in bioremediation because microbial growth rates are greatly dependent upon temperature.

2.2.1.6 Turbidity

Turbidity ranged from 0.13 to 4.23 nephelometric turbidity units (NTU) during Q2 2006. Turbidity is a measure of the clarity of water and is used as an indicator of the solids present in a water sample and overall water quality.

2.2.2 Laboratory Analyses

The results of the laboratory analyses performed on the groundwater samples collected during June 2006 are provided in Appendix A. A discussion of the results of the laboratory analyses performed on the groundwater samples are presented in the following subsections.

2.2.2.1 Laboratory Analyses for BTEX and PAH

Each groundwater sample collected during the June 2006 sampling event was analyzed for BTEX and PAH compounds. The results of these analyses are presented and compared to WDNR Preventive Action Limits (PALs) and Enforcement Standards (ESs) in Table 2-5. Table 2-5 identifies parameters detected at concentrations exceeding their respective PALs (shown as bolded values). Parameters with concentrations exceeding both PALs and ESs are presented as shaded and bolded values in Table 2-5. Exceedences are summarized in the following paragraphs.

Groundwater Sample Results

As shown in Table 2-5, benzene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, fluorene, naphthalene, and pyrene were detected at concentrations exceeding their respective PALs and/or ESs in the groundwater samples collected from the shallow monitoring well network. The results are as follows:

WDNR PAL Exceedences

- Benzene was detected at concentrations exceeding the PAL of 0.5 micrograms per liter ($\mu\text{g/L}$) in the groundwater samples collected from wells MW-7S and MW-34S.
- Benzo(a)pyrene was detected at concentrations exceeding the PAL of 0.02 $\mu\text{g/L}$ in the groundwater samples collected from wells MW-34S, TG1-1, TG1-2, and TG6-2.
- Benzo(b)fluoranthene was detected at concentrations exceeding the PAL of 0.02 $\mu\text{g/L}$ in the groundwater samples collected from wells MW-34S, TG1-1, and TG6-2.

- Chrysene was detected at concentrations exceeding the PAL of 0.02 µg/L in the groundwater sample collected from well MW-34S.
- Fluoranthene was detected at a concentration exceeding the PAL of 80 µg/L in the groundwater sample collected from well TG1-1.
- Fluorene was detected at concentrations exceeding the PAL of 80 µg/L in the groundwater samples collected from wells MW-34S and TG1-1.
- Naphthalene was detected at concentrations exceeding the PAL of 8 µg/L in the groundwater samples from wells MW-7S, MW-34S, TG1-1 and TG1-2.
- Pyrene was detected at a concentration exceeding the PAL of 50 µg/L in the groundwater sample collected from well TG1-1.

WDNR ES Exceedences

- Benzene was detected at a concentration exceeding the ES of 5 µg/L in the groundwater sample collected from well MW-34S.
- Benzo(a)pyrene was detected at concentrations exceeding the ES of 0.2 µg/L in the groundwater sample collected from well TG1-1.
- Benzo(b)fluoranthene was detected at concentrations exceeding the ES of 0.2 µg/L in the groundwater sample collected from well TG1-1.
- Chrysene was detected at concentrations exceeding the ES of 0.2 µg/L in the groundwater sample collected from well MW-34S.
- Naphthalene was detected at concentrations exceeding the ES of 40 µg/L in the groundwater samples collected from wells MW-34S, TG1-1, and TG1-2.

The plume boundary is primarily in an area encompassing four shallow monitoring wells (MW-7S, MW-34S, TG1-1, and TG1-2). Although two PAH's were detected in TG6-2 above PALs, these exceedences have not typically been detected in this well and are not considered to be part of a plume.

The majority of PAL and ES exceedences are associated with wells MW-34S and TG1-1 in which free product has historically been observed. In general, PAH concentrations measured in groundwater samples collected from the rest of the site were at relatively low levels with only sporadic PAL/ES exceedences. Based on these detected concentrations, the contaminant plume generally demonstrates a northeasterly trend, as indicated in Figure 2-1, similar to the previous

28 quarterly groundwater sampling events. Very low (estimated) concentrations of one or more of the following constituents were detected during the Q2 2006 round below the PAL/ES in treatment gate wells TG1-3, TG2-2, TG3-3, TG4-2, and TG6-3: acenaphthene, anthracene, flouranthene, and fluorene. No other PAHs, or BTEX constituents, were observed in the treatment gates.

A summary of the concentration of contaminants at wells that have regularly exceeded PALs and/or ESs during the last 12 quarters (3 years) is presented in Table 2-6. Levels of benzene, naphthalene, fluorene, and benzo(a)pyrene fluctuate over wide ranges in some of these wells. However, several constituents have shown an overall decreasing trend in monitoring wells MW-32S, MW-33S and MW-35S. Benzene, fluorene, and benzo(a)pyrene concentrations have remained relatively constant in MW-7S; however, naphthalene concentrations show an overall decreasing trend in MW-7S. Well MW-34S has shown overall fluctuating levels in naphthalene, fluorene, and benzo(a)pyrene; however, benzene concentrations have remained relatively consistent in MW-34S. During Q2 2006, 0.2 feet of free product was detected in well MW-34S. Varying levels of free product have been found in MW-34S in the recent past. This correlates with the elevated levels of constituents found in MW-34S. Well TG1-1 has shown fluctuating naphthalene, fluorene, and benzo(a)pyrene concentrations since it was first sampled in Q3 2000. These fluctuating concentrations could be due to the presence of free product which has historically been observed in well TG1-1.

2.2.2.2 Laboratory Analyses for Treatment Performance Monitoring

The groundwater samples collected from the treatment performance monitoring wells were analyzed for microbial enumeration, NO₃-N, NO₂-N, TKN, NH₃-N, PO₄-P, ORP, BOD, COD, TOC, BTEX, and PAHs. The analytical results for microbial enumeration, NO₃-N, NO₂-N, TKN, NH₃-N, PO₄-P, ORP, BOD, COD, and TOC are presented in Table 2-7. The analytical results for the treatment performance monitoring well groundwater samples are summarized below. The laboratory reports of nutrient and microbial analyses are also included in Appendix A.

Nitrogen and Phosphorous Compounds

Nitrate was detected in TG1-2 and T2-2 at concentrations of 0.066 and 0.058 mg/l, respectively. Nitrate was not detected above detection limits in the remaining treatment performance monitoring wells. Nitrite was not detected above the detection limits in any of the treatment performance monitoring well samples. TKN results include four non-detect results and detections with concentrations ranging from 0.63 to 1.9 mg/L. Ammonia results include two non-detect results and detections ranging from 0.48 to 2.0 mg/L. Overall, nitrogen compound concentrations are at relatively low levels; however, previous sample results have indicated that $\text{NH}_3\text{-N}$ concentrations are typically an order of magnitude greater than $\text{NO}_3\text{-N}$ concentrations and approximately two orders or magnitude greater than $\text{NO}_2\text{-N}$.

$\text{PO}_4\text{-P}$ and ORP were not detected above the detection limits in any of the treatment performance monitoring well samples.

BOD, COD, and TOC

BOD results include non-detect results and one detection at a concentration of 12.7 mg/L in TG3-3. COD concentrations for the samples collected throughout the treatment system ranged from 8.7 to 33.3 mg/L. TOC concentrations for the samples collected throughout the treatment system ranged from 2.2 to 10.9 mg/L. As expected, the treatment gate wells indicate less BOD compared to COD. COD indicates the presence of constituents that exert an oxygen demand, including carbon compounds such as the site contaminants in the groundwater, and other constituents such as ammonia, sulfurous compounds; and biological material such as humic acids and detritus. A significant portion of oxygen demand exerted by the constituents measured in the COD test may not be readily biodegradable and would typically exert the oxygen demand over an extended time period. The oxygen demand exerted by the constituents the COD analysis detected is catalyzed chemically and thermally. The low BOD indicates low concentrations of material that is readily biodegradable and/or quickly oxidized.

Microbial Enumeration

The total microbial populations for TG1 and TG2 ranged from 2.8×10^2 to 8.5×10^4 colony forming units per milliliter (CFU/mL) during Q2 2006. The total microbial population for TG3 and TG4 ranged from 1.1×10^3 to 1.7×10^4 CFU/mL during Q2 2006. The total microbial populations for TG5 and TG6 ranged from 2.5×10^2 to 8.9×10^4 CFU/mL during Q2 2006.

The result of degrader microbial population analysis for TG1 and TG2 included four non-detect results and detections of 7.1×10^2 and 7.2×10^2 CFU/mL, in TG1-1 and TG2-3, respectively, during Q2 2006. The degrader microbial populations for TG3 and TG4 ranged from 1.3×10^2 to 2.4×10^3 CFU/mL during Q2 2006. The degrader microbial populations for TG5 and TG6 included two non-detect results and detections ranging from 3.2×10^2 to 1.2×10^4 CFU/mL during Q2 2006.

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- ⊕ HYDRANT
- ↑ SIGN
- ⊕ FREE PRODUCT COLLECTION SUMP
- UTILITY POLE
- SAMPLING MANHOLE
- ◆ MONITORING WELL
- INJECTION WELL
- ⊕ STAFF GAUGE
- ⊕ PIEZOMETER
- - - CURRENT RIVER CHANNEL
- - - FORMER RIVER CHANNEL
- DIRECTION OF GROUNDWATER FLOW
- 726 GROUNDWATER ELEVATION CONTOUR
- - - 726 DASHED WHERE INFERRED
- - - ESTIMATED BOUNDARY OF CONTAMINANT PLUME
- NM GROUNDWATER ELEVATION NOT MEASURED

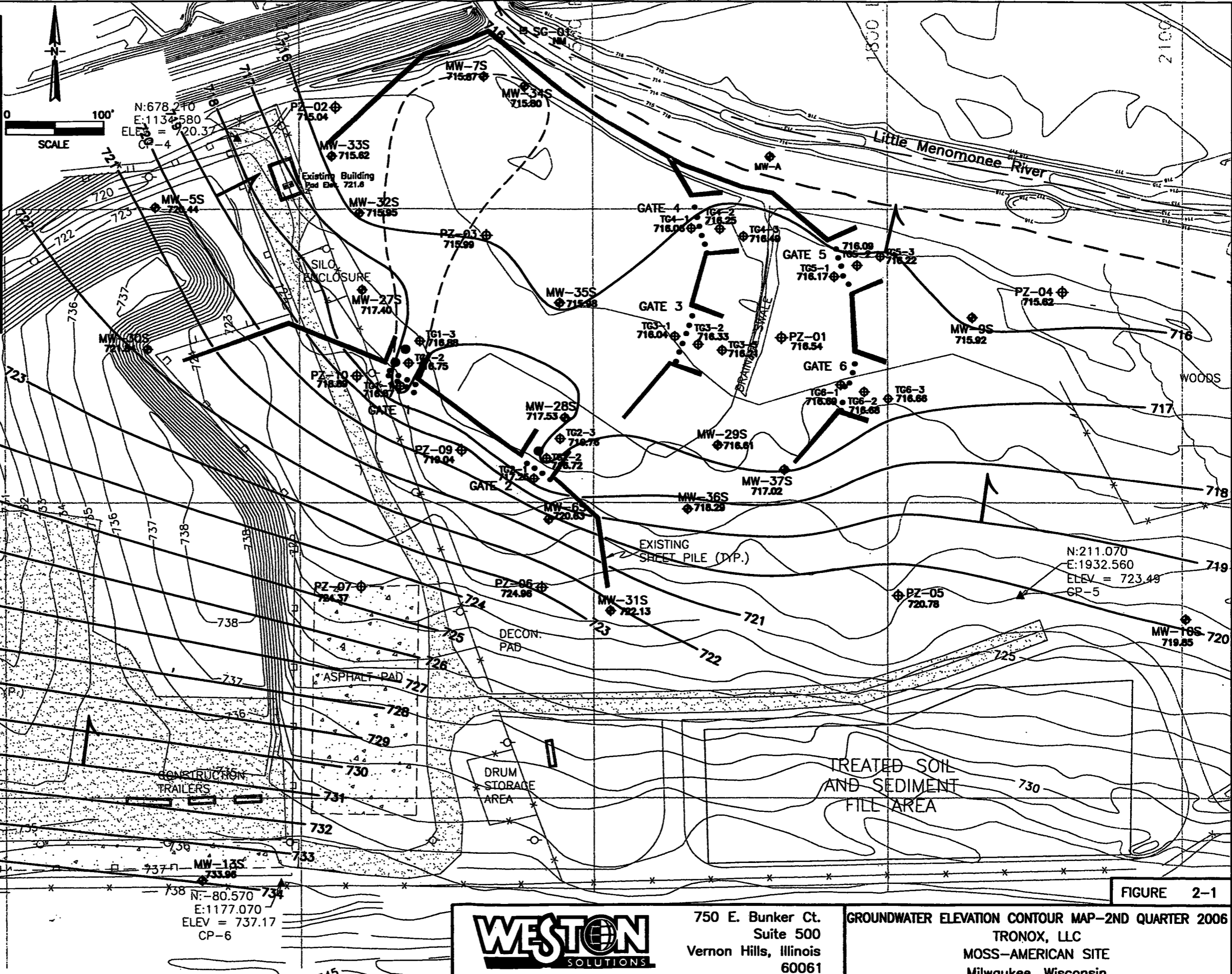



FIGURE 2-1



750 E. Bunker Ct.
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GROUNDWATER ELEVATION CONTOUR MAP-2ND QUARTER 2006
TRONOX, LLC
MOSS-AMERICAN SITE
Milwaukee, Wisconsin

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- CABLE FENCE
- CATCH BASIN
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- SIGN
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- UTILITY POLE
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DASHED WHERE INFERRED
- - - ESTIMATED BOUNDARY OF CONTAMINANT PLUME
- NM GROUNDWATER ELEVATION NOT MEASURED

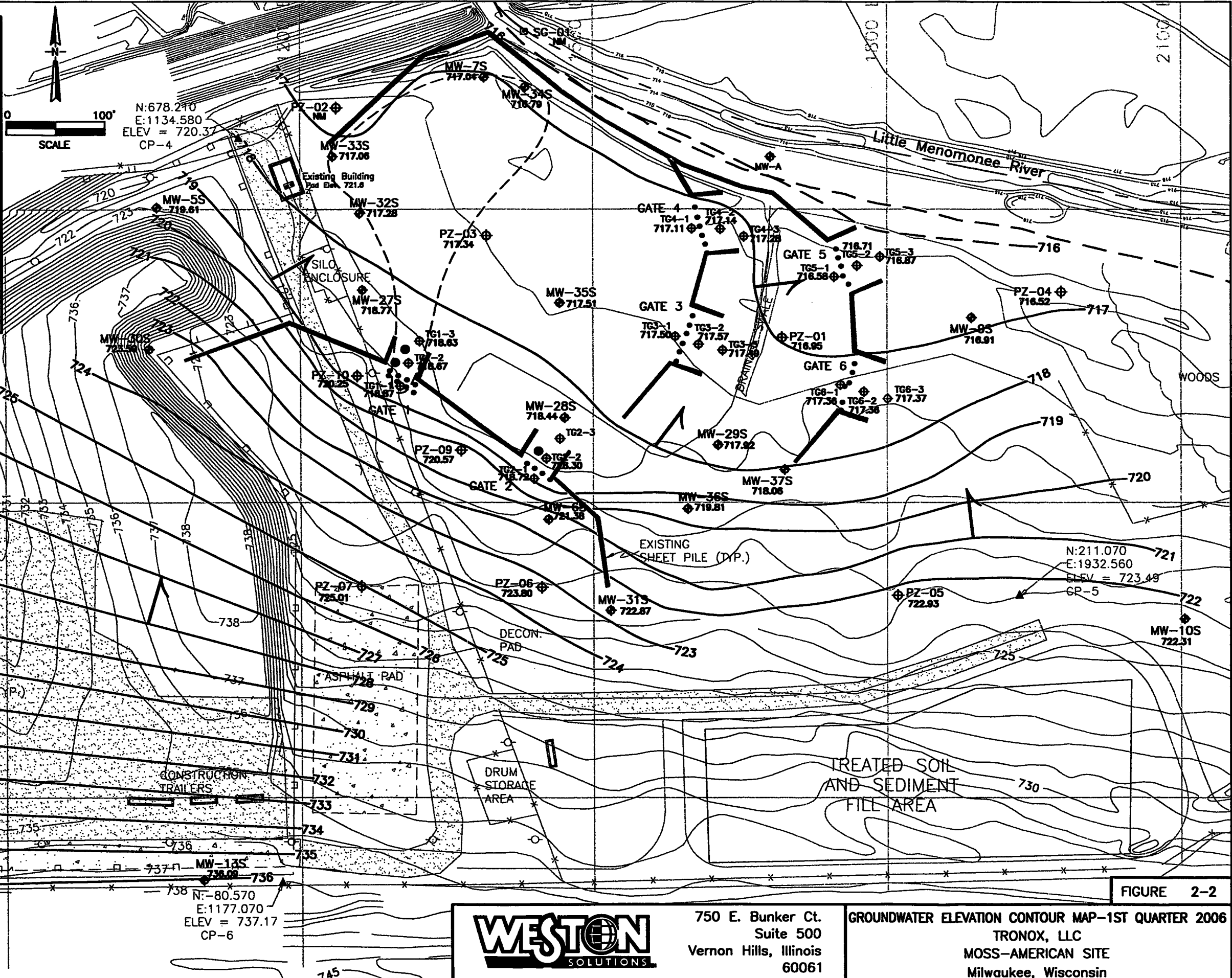


FIGURE 2-2



750 E. Bunker Ct.
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60061

GROUNDWATER ELEVATION CONTOUR MAP-1ST QUARTER 2006
TRONOX, LLC
MOSS-AMERICAN SITE
Milwaukee, Wisconsin

Table 2-1

**Groundwater Elevation Measurements
Shallow and Containment Performance Monitoring Wells
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006**

Well ID	Ground Elevation	TOC Elevation	Depth to Water	Groundwater Elevation	Product Thickness
MW-3S	729.71	731.45	7.00	724.45	None Detected
MW-5S	723.41	724.63	4.18	720.45	
MW-6S	723.11	725.24	4.61	720.63	
MW-7S	719.47	721.59	5.72	715.87	
MW-9S	719.15	721.66	5.74	715.92	
MW-10S	723.95	726.76	6.91	719.85	
MW-13S	737.73	738.58	4.62	733.96	
MW-25S	736.95	739.19	4.36	734.83	
MW-26S	732.31	731.87	4.51	727.36	
MW-27S	720.57	723.10	5.70	717.40	
MW-28S	719.64	722.13	4.60	717.53	
MW-29S	719.51	722.17	5.56	716.61	
MW-30S	725.35	727.34	5.50	721.84	
MW-31S	725.29	725.31	3.18	722.13	
MW-32S	719.68	722.79	6.84	715.95	
MW-33S	719.25	721.81	6.19	715.62	
MW-34S	718.97	721.52	5.72	715.80	
MW-35S	718.14	721.75	5.77	715.98	None Detected
MW-36S	720.41	723.21	4.92	718.29	
MW-37S	721.33	723.30	6.28	717.02	

Notes:

All values in feet.

All elevation measurements are with respect to Mean Sea Level (MSL).

TOC = Top of well casing.

GW = Groundwater.

Depth to groundwater was measured on 26 June 2006

Table 2-2

**Groundwater Elevation Measurements
Treatment Performance Monitoring Wells
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006**

Well ID	Ground Elevation	TOC Elevation	Depth to Water	GW Elevation	Hydraulic Gradient (ft/ft)	Groundwater Velocity (ft/day)	Product Thickness
TG1-1	719.77	723.32	6.45	716.87	-0.0013	-0.0123	None Detected
TG1-2	720.06	722.81	6.06	716.75			
TG1-3	719.56	722.53	5.65	716.88			
TG2-1	720.67	723.80	6.55	717.25	0.0049	0.0463	
TG2-2	720.62	723.05	6.33	716.72			
TG2-3	720.06	722.61	5.85	716.76			
TG3-1	719.14	721.05	5.01	716.04	-0.0017	-0.0161	
TG3-2	718.87	720.92	4.59	716.33			
TG3-3	718.35	720.60	4.39	716.21			
TG4-1	718.06	721.14	5.08	716.06	-0.0043	-0.0406	
TG4-2	718.26	720.75	4.5	716.25			
TG4-3	718.01	720.04	3.55	716.49			
TG5-1	717.60	721.12	4.95	716.17	-0.0005	-0.0047	
TG5-2	718.18	720.63	4.54	716.09			
TG5-3	718.17	719.99	3.77	716.22			
TG6-1	719.47	721.96	5.27	716.69	0.0003	0.0028	
TG6-2	719.70	722.05	5.37	716.68			
TG6-3	719.58	722.47	5.81	716.66			

Notes:

All values in feet.

All elevation measurements are with respect to Mean Sea Level (MSL).

Porosity of soil is assumed to be 0.3.

Hydraulic conductivity of treatment gate material is assumed to be 1E-3 cm/s = 3.0 ft/day.

TOC = Top of the casing.

GW = Groundwater.

ft/day = feet per day.

ft/ft = feet per foot.

A negative value in the groundwater velocity column indicates that the groundwater flow was opposite to the general direction of groundwater flow at the site.

Depth to groundwater was measured on 26 June 2006

Table 2-3

**Groundwater Elevation Measurements
Piezometers and Staff Gauge
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006**

Well ID	Ground Elevation	TOC Elevation	Depth to Water	Groundwater Elevation	Product Thickness
Groundwater					
PZ-01	718.04	721.05	4.51	716.54	None Detected
PZ-02	718.89	721.84	6.80	715.04	
PZ-03	719.00	722.09	6.10	715.99	
PZ-04	717.30	720.22	4.60	715.62	
PZ-05	724.34	727.43	6.65	720.78	
PZ-06	724.62	727.79	4.83	722.96	
PZ-07	725.78	728.72	4.35	724.37	
PZ-09	721.12	724.08	5.04	719.04	
PZ-10	722.04	725.05	6.16	718.89	
Surface Water					
ID	Top of Staff Gauge Elevation		Staff Gauge Reading	Water Elevation	
SG-01	716.22		NM	NC	

Notes:

- All values in feet.
- All elevation measurements are with respect to Mean Sea Level (MSL).
- TOC = Top of well casing.
- GW = Groundwater.
- NM= Not measured
- NC= Could not be calculated due to insufficient data

Depth to groundwater was measured on 26 June 2006

Table 2-4

**Field-Measured Parameters
Shallow Groundwater and Containment Performance Monitoring Wells
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006**

Well ID	Dissolved Oxygen (mg/L)	Redox Potential (mV)	pH (Standard Units)	Specific Conductance (mmho/cm)	Temperature (Deg C)	Turbidity (NTU)
MW-5S	1.15	-13.1	6.81	0.310	12.66	0.45
MW-6S	2.18	39.9	6.92	0.720	12.81	4.2
MW-7S	0.01	-120.7	6.88	0.758	10.92	1.13
MW-9S	0.52	20.9	6.45	0.730	12.91	3.49
MW-27S	0.15	10.1	6.79	1.015	13.49	3.42
MW-28S	0.04	-1.1	6.5	0.693	13.72	3.23
MW-29S	0.38	-39.2	6.93	0.682	13.57	2.56
MW-30S	0.13	-23.1	6.75	2.188	11.98	2.56
MW-31S	5.18	39.2	7.04	0.845	13.29	4.1
MW-32S	0.11	32.1	6.93	1.131	12.94	0.13
MW-33S	2.13	45.1	6.61	1.310	13.55	0.9
MW-34S	NM	NM	NM	NM	NM	NM
MW-35S	0.1	-37.5	6.66	1.299	13.79	0.2
MW-36S	1.55	-1.6	7.2	0.661	13.39	1.63
MW-37S	0.32	-33.2	6.74	0.821	13.28	1.43

Table 2-4 (Continued)

**Field-Measured Parameters
Treatment Performance Monitoring Wells
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006**

Well ID	Dissolved Oxygen (mg/L)	Redox Potential (mV)	pH (Standard Units)	Specific Conductance (mmho/cm)	Temperature (Deg C)	Turbidity (NTU)
TG1-1	NM	NM	NM	NM	NM	NM
TG1-2	0.04	-127.2	7.17	0.901	12.9	4.21
TG1-3	0.06	-126.2	7.11	0.913	13.15	0.13
TG2-1	0.06	-15.8	6.88	0.834	12.47	2.42
TG2-2	0.12	-113.8	7.11	0.748	12.04	0.39
TG2-3	0.29	-113.9	6.89	0.956	13.45	1.43
TG3-1	0.51	-13.9	6.91	1.018	13.85	3.25
TG3-2	0.02	-136.9	7.25	0.848	13.78	1.91
TG3-3	0.00	-123.1	6.96	0.957	13.13	4.2
TG4-1	0.07	-82.8	7.01	0.996	14.01	1.46
TG4-2	0.26	-125.9	7.14	1.081	13.43	0.94
TG4-3	0.34	-95.5	7.05	1.065	13.05	4.23
TG5-1	0.39	-59	6.94	0.839	14.23	1.98
TG5-2	0.58	-125.6	7.09	0.835	13.41	1.98
TG5-3	0.18	-79.9	7.23	0.798	13.86	0.56
TG6-1	0.14	-109.9	7.09	0.963	14.15	0.28
TG6-2	0.22	-7.4	6.60	1.353	12.4	3.87
TG6-3	0.62	-59.8	6.65	1.235	13.38	1.23

Notes:

S - Shallow well.

TG - Treatment gate performance monitoring well.

NM - Not measured due to presence of a sheen or free product in well.

uohm/cm - microhms per centimeter

Deg C - Degrees Celcius

mV - millivolt

mg/L - milligram per liter

NTU - Nephelometric Turbidity unit

Table 2-5

Groundwater Sample Analytical Results
Shallow Monitoring Well Samples
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006

Sample ID	MA3-MW5S-062606-2	MA3-MW6S-062706-7	MA3-MW7S-062706-16	MA3-MW9S-062706-6	WDNR PAL (ug/L)	WDNR ES (ug/L)
Well ID	MW-5S	MW-6S	MW-7S	MW-9S		
Matrix	Groundwater	Groundwater	Groundwater	Groundwater		
Date	6/26/2006	6/27/2006	6/27/2006	6/27/2006		
Units	ug/l	ug/l	ug/l	ug/l		
VOCs						
Benzene	0.2 U	0.2 U	1.2	0.2 U	0.5	5
Ethylbenzene	0.2 U	0.2 U	11	0.2 U	140	700
Toluene	0.2 U	0.2 U	0.2 J	0.2 U	68.6	343
Total Xylenes	0.6 U	0.6 U	12	0.6 U	124	650
PAHs						
Acenaphthene	0.94 U	0.93 U	22	0.95 U	NA	NA
Acenaphthylene	1.5 U	1.5 U	20 U	1.5 U	NA	NA
Anthracene	0.042 U	0.041 U	0.042 U	0.042 U	600	3000
Benzo(a)anthracene	0.021 U	0.021 U	0.021 U	0.021 U	NA	NA
Benzo(a)pyrene	0.021 U	0.021 U	0.021 U	0.021 U	0.02	0.2
Benzo(b)fluoranthene	0.042 U	0.041 U	0.042 U	0.042 U	0.02	0.2
Benzo(g,h,i)perylene	0.1 U	0.1 U	0.10 U	0.11 U	NA	NA
Benzo(k)fluoranthene	0.021 U	0.021 U	0.021 U	0.021 U	NA	NA
Chrysene	0.084 U	0.083 U	0.084 U	0.084 U	0.02	0.2
Dibenz(a,h)anthracene	0.042 U	0.041 U	0.042 U	0.042 U	NA	NA
Fluoranthene	0.042 U	0.041 U	0.042 U	0.042 U	80	400
Fluorene	0.52 U	0.52 U	4.1	0.53 U	80	400
Indeno(1,2,3-cd)pyrene	0.084 U	0.083 U	0.084 U	0.084 U	NA	NA
Naphthalene	1.4 U	1.3 U	12 J	1.4 U	8	40
Phenanthrene	0.084 U	0.083 U	0.084 U	0.084 U	NA	NA
Pyrene	0.19 U	0.19 U	0.19 U	0.19 U	50	250

U-Constituent not detected. Detection limit indicated.

J-Estimated concentration.

VOC-Volatile Organic Compound.

PAH-Polynuclear Aromatic Hydrocarbon.

PAL-Wisconsin Department of Natural Resources (WDNR) Preventative Action Limit.

ES-Enforcement Standard (WDNR).

NA-Not Applicable. PAL or ES not available for this parameter.

Bolded values indicate concentration exceeding PAL.

Shaded and bolded values indicate concentration exceeding PAL and ES.

Table 2-5 (Continued)
 Groundwater Sample Analytical Results
 Containment Monitoring Well Samples
 Moss-American Site
 Milwaukee, Wisconsin
 Second Quarter 2006

Sample ID	MA3-MW27S-062706-1	MA3-MW27S-062706-2-DP	MA3-MW28S-062706-12	MA3-MW29S-062706-9	MA3-MW30S-062806-1	MA3-MW31S-062706-8	MA3-MW32S-062706-3	WDNR PAL (ug/L)	WDNR ES (ug/L)
Well ID	MW-27S	MW-27S	MW-28S	MW-29S	MW-30S	MW-31S	MW-32S		
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Date	6/27/2006	6/27/2006	6/27/2006	6/27/2006	6/26/2006	6/27/2006	6/27/2006		
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		
VOCs									
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5	5
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	140	700
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	68.6	343
Total Xylenes	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	124	650
PAHs									
Acenaphthene	0.96 U	0.96 U	0.96 U	0.97 U	0.93 U	0.94 U	1.0 U	NA	NA
Acenaphthylene	1.5 U	1.5 U	1.5 U	1.5 U	1.4 U	1.5 U	1.6 U	NA	NA
Anthracene	0.043 U	0.043 U	0.043 U	0.043 U	0.041 U	0.042 U	0.044 U	600	3000
Benzo(a)anthracene	0.021 U	0.021 U	0.021 U	0.021 U	0.022 U	0.021 U	0.022 U	NA	NA
Benzo(a)pyrene	0.021 U	0.021 U	0.021 U	0.022 U	0.021 U	0.021 U	0.022 U	0.02	0.2
Benzo(b)fluoranthene	0.043 U	0.043 U	0.043 U	0.043 U	0.041 U	0.042 U	0.044 U	0.02	0.2
Benzo(g,h,i)perylene	0.11 U	0.11 U	0.11 U	0.11 U	0.10 U	0.10 U	0.11 U	NA	NA
Benzo(k)fluoranthene	0.021 U	0.021 U	0.021 U	0.022 U	0.021 U	0.021 U	0.022 U	NA	NA
Chrysene	0.085 U	0.085 U	0.086 U	0.086 U	0.082 U	0.083 U	0.089 U	0.02	0.2
Dibenz(a,h)anthracene	0.043 U	0.043 U	0.043 U	0.043 U	0.041 U	0.042 U	0.044 U	NA	NA
Fluoranthene	0.043 U	0.043 U	0.043 U	0.043 U	0.041 U	0.042 U	0.044 U	80	400
Fluorene	0.53 U	0.53 U	0.54 U	0.54 U	0.51 U	0.52 U	0.56 U	80	400
Indeno(1,2,3-cd)pyrene	0.085 U	0.085 U	0.086 U	0.086 U	0.082 U	0.083 U	0.089 U	NA	NA
Naphthalene	1.4 U	1.4 U	1.4 U	1.4 U	1.3 U	1.4 U	1.4 U	8	40
Phenanthrene	0.085 U	0.085 U	0.086 U	0.086 U	0.082 U	0.083 U	0.089 U	NA	NA
Pyrene	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.20 U	50	250

U-Constituent not detected. Detection limit indicated.

J-Estimated concentration.

VOC-Volatile Organic Compound.

PAH-Polynuclear Aromatic Hydrocarbon.

PAL-Wisconsin Department of Natural Resources (WDNR) Preventative Action Limit.

ES-Enforcement Standard (WDNR).

NA-Not Applicable. PAL or ES not available for this parameter.

Bolded values indicate concentration exceeding PAL.

Shaded and bolded values indicate concentration exceeding PAL and ES.

Table 2-5 (Continued)
 Groundwater Sample Analytical Results
 Containment Monitoring Well Samples
 Moss-American Site
 Milwaukee, Wisconsin
 Second Quarter 2006

Sample ID	MA3-MW33S-062706-6	MA3-MW34S-062706-15	MA3-MW35S-062706-13	MA3-MW35S-062706-14-DP	MA3-MW36S-062706-11	MA3-MW37S-062706-10	WDNR PAL (ug/L)	WDNR ES (ug/L)
Well ID	MW-33S	MW-34S	MW-35S	MW-35S	MW-36S	MW-37S		
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Date	6/27/2006	6/27/2006	6/27/2006	6/27/2006	6/27/2006	6/27/2006		
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		
VOCs								
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5	5
Ethylbenzene	1.9	25	0.2 U	0.2 U	0.2 U	0.2 U	140	700
Toluene	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U	68.6	343
Total Xylenes	0.6 U	70	0.6 U	0.6 U	0.6 U	0.6 U	124	650
PAHs								
Acenaphthene	100	200	0.97 U	0.95 U	0.96 U	0.96 U	NA	NA
Acenaphthylene	30 U	130 U	1.5 U	1.5 U	1.5 U	1.5 U	NA	NA
Anthracene	0.16 J	9.6	0.043 U	0.042 U	0.043 U	0.042 U	600	3000
Benzo(a)anthracene	0.021 U	0.73	0.022 U	0.021 U	0.021 U	0.021 U	NA	NA
Benzo(a)pyrene	0.021 U	0.18	0.022 U	0.021 U	0.021 U	0.021 U	0.02	0.2
Benzo(b)fluoranthene	0.043 U	0.13 J	0.043 U	0.042 U	0.043 U	0.042 U	0.02	0.2
Benzo(g,h,i)perylene	0.11 U	0.10 U	0.11 U	0.11 U	0.11 U	0.11 U	NA	NA
Benzo(k)fluoranthene	0.021 U	0.084 J	0.022 U	0.021 U	0.021 U	0.021 U	NA	NA
Chrysene	0.086 U	0.62	0.086 U	0.085 U	0.085 U	0.085 U	0.02	0.2
Dibenz(a,h)anthracene	0.043 U	0.042 U	0.043 U	0.042 U	0.043 U	0.042 U	NA	NA
Fluoranthene	0.043 U	14	0.66	0.65	0.043 U	0.042 U	80	400
Fluorene	38	110	0.54 U	0.53 U	0.53 U	0.53 U	80	400
Indeno(1,2,3-cd)pyrene	0.086 U	0.084 U	0.086 U	0.085 U	0.085 U	0.085 U	NA	NA
Naphthalene	7.1 J	6500	1.4 U	1.4 U	1.4 U	1.4 U	8	40
Phenanthrene	6.3	120	0.086 U	0.085 U	0.085 U	0.085 U	NA	NA
Pyrene	0.19 U	9.0	0.40 J	0.40 J	0.19 U	0.19 U	50	250

U-Constituent not detected. Detection limit indicated.

J-Estimated concentration.

VOC-Volatile Organic Compound.

PAH-Polynuclear Aromatic Hydrocarbon.

PAL-Wisconsin Department of Natural Resources (WDNR) Preventative Action Limit.

ES-Enforcement Standard (WDNR).

NA-Not Applicable. PAL or ES not available for this parameter.

Bolded values indicate concentration exceeding PAL.

Shaded and bolded values indicate concentration exceeding PAL and ES.

Table 2-5 (Continued)

Groundwater Sample Analytical Results
Treatment Performance Monitoring Well Samples
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006

Sample ID	MA3-TG1-1-062806-16	MA3-TG1-2-062806-17	MA3-TG1-3-062806-18	MA3-TG2-1-062806-13	MA3-TG2-2-062806-14	WDNR PAL (ug/L)	WDNR ES (ug/L)
Well ID	TG1-1	TG1-2	TG1-3	TG2-1	TG2-2		
Matrix	Groundwater						
Date	6/28/2006						
Units	ug/l						
VOCs							
Benzene	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5	5
Ethylbenzene	8.4	0.2 J	0.2 U	0.2 U	0.2 U	140	700
Toluene	1 U	0.2 U	0.2 U	0.2 U	0.2 U	68.6	343
Total Xylenes	13 J	0.6 U	0.6 U	0.6 U	0.6 U	124	650
PAHs							
Acenaphthene	250 U	39 J	2.5 J	1.0 U	0.99 U	NA	NA
Acenaphthylene	48	1.6 UJ	1.4 UJ	1.6 U	1.5 U	NA	NA
Anthracene	25	1.3 J	0.063 J	0.045 U	0.044 U	600	3000
Benzo(a)anthracene	15	0.061 J	0.021 UJ	0.023 U	0.022 U	NA	NA
Benzo(a)pyrene	5.6 J	0.033 J	0.021 UJ	0.023 UJ	0.022 UJ	0.02	0.2
Benzo(b)fluoranthene	5.6 J	0.044 UJ	0.041 UJ	0.045 U	0.044 U	0.02	0.2
Benzo(g,h,i)perylene	2.3	0.11 UJ	0.10 UJ	0.11 U	0.11 U	NA	NA
Benzo(k)fluoranthene	3.1	0.022 UJ	0.021 UJ	0.023 U	0.022 U	NA	NA
Chrysene	12 J	0.089 UJ	0.082 UJ	0.090 U	0.088 U	0.02	0.2
Dibenz(a,h)anthracene	0.043 U	0.044 UJ	0.041 UJ	0.045 U	0.044 U	NA	NA
Fluoranthene	94	2.0 J	0.24 J	0.045 U	0.046 J	80	400
Fluorene	160 J	19 J	0.69 J	0.56 UJ	0.55 UJ	80	400
Indeno(1,2,3-cd)pyrene	3.2	0.089 UJ	0.082 UJ	0.090 U	0.088 U	NA	NA
Naphthalene	1100 J	55 J	1.3 UJ	1.5 U	1.4 U	8	40
Phenanthrene	260	8.7 J	0.082 UJ	0.09 U	0.088 U	NA	NA
Pyrene	73	1.3 J	0.19 UJ	0.20 U	0.20 U	50	250

U-Constituent not detected. Detection limit indicated.

J-Estimated concentration.

VOC-Volatile Organic Compound.

PAH-Polynuclear Aromatic Hydrocarbon.

PAL-Wisconsin Department of Natural Resources (WDNR) Preventative Action Limit.

ES-Enforcement Standard (WDNR).

NA-Not Applicable. PAL or ES not available for this parameter.

Bolded values indicate concentration exceeding PAL.

Shaded and bolded values indicate concentration exceeding PAL and ES.

Table 2-5 (Continued)

**Groundwater Sample Analytical Results
Treatment Performance Monitoring Well Samples
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006**

Sample ID	MA3-TG2-3-062806-15	MA3-TG3-1-062806-10	MA3-TG3-2-062806-11	MA3-TG3-3-062806-12	WDNR PAL (ug/L)	WDNR ES (ug/L)
Well ID	TG2-3	TG3-1	TG3-2	TG3-3		
Matrix	Groundwater					
Date	6/28/2006					
Units	ug/l					
VOCs						
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.5	5
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	140	700
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	68.6	343
Total Xylenes	0.6 U	0.6 U	0.6 U	0.6 U	124	650
PAHs						
Acenaphthene	1.0 U	0.95 U	1.1 U	1.0 U	NA	NA
Acenaphthylene	1.6 U	1.5 U	1.8 U	1.6 U	NA	NA
Anthracene	0.045 U	0.042 U	0.050 U	0.045 U	600	3000
Benzo(a)anthracene	0.022 U	0.021 U	0.025 U	0.023 U	NA	NA
Benzo(a)pyrene	0.022 UJ	0.021 UJ	0.025 UJ	0.023 UJ	0.02	0.2
Benzo(b)fluoranthene	0.045 U	0.042 U	0.050 U	0.045 U	0.02	0.2
Benzo(g,h,i)perylene	0.11 U	0.11 U	0.13 U	0.11 U	NA	NA
Benzo(k)fluoranthene	0.022 U	0.021 U	0.025 U	0.023 U	NA	NA
Chrysene	0.089 U	0.084 U	0.10 U	0.091 U	0.02	0.2
Dibenz(a,h)anthracene	0.045 U	0.042 U	0.050 U	0.045 U	NA	NA
Fluoranthene	0.045 U	0.042 U	0.050 U	0.064 J	80	400
Fluorene	0.56 UJ	0.53 UJ	0.63 UJ	0.57 UJ	80	400
Indeno(1,2,3-cd)pyrene	0.089 U	0.084 U	0.10 U	0.091 U	NA	NA
Naphthalene	1.4 U	1.4 U	1.6 U	1.5 U	8	40
Phenanthrene	0.089 U	0.084 U	0.10 U	0.091 U	NA	NA
Pyrene	0.20 U	0.19 U	0.23 U	0.20 U	50	250

U-Constituent not detected. Detection limit indicated.

J-Estimated concentration.

VOC-Volatile Organic Compound.

PAH-Polynuclear Aromatic Hydrocarbon.

PAL-Wisconsin Department of Natural Resources (WDNR) Preventative Action Limit.

ES-Enforcement Standard (WDNR).

NA-Not Applicable. PAL or ES not available for this parameter.

Bolded values indicate concentration exceeding PAL.

Shaded and bolded values indicate concentration exceeding PAL and ES.

Table 2-5 (Continued)

Groundwater Sample Analytical Results
Treatment Performance Monitoring Well Samples
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006

Sample ID	MA3-TG4-1-062806-7	MA3-TG4-2-062806-8	MA3-TG4-3-062806-9	MA3-TG4-3-062806-9-DF	MA3-TG5-1-062806-1	WDNR PAL (ug/L)	WDNR ES (ug/L)
Well ID	TG4-1	TG4-2	TG4-3	TG4-3	TG5-1		
Matrix	Groundwater						
Date	6/28/2006						
Units	ug/l						
VOCs							
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5	5
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	140	700
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	68.6	343
Total Xylenes	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	124	650
PAHs							
Acenaphthene	0.98 U	1.1 U	1.0 U	0.96 U	0.96 U	NA	NA
Acenaphthylene	1.5 U	1.8 U	1.6 U	1.5 U	1.5 U	NA	NA
Anthracene	0.044 U	0.050 U	0.044 U	0.043 U	0.043 U	600	3000
Benzo(a)anthracene	0.022 U	0.025 U	0.022 U	0.021 U	0.021 U	NA	NA
Benzo(a)pyrene	0.022 UJ	0.025 UJ	0.022 UJ	0.021 UJ	0.021 UJ	0.02	0.2
Benzo(b)fluoranthene	0.044 U	0.050 U	0.044 U	0.043 U	0.043 U	0.02	0.2
Benzo(g,h,i)perylene	0.11 U	0.13 U	0.11 U	0.11 U	0.11 U	NA	NA
Benzo(k)fluoranthene	0.022 U	0.025 U	0.022 U	0.021 U	0.021 U	NA	NA
Chrysene	0.087 U	0.10 U	0.089 U	0.086 U	0.085 U	0.02	0.2
Dibenz(a,h)anthracene	0.044 U	0.050 U	0.044 U	0.043 U	0.043 U	NA	NA
Fluoranthene	0.044 U	0.23 J	0.044 U	0.043 U	0.043 U	80	400
Fluorene	0.54 UJ	0.63 UJ	0.55 UJ	0.54 UJ	0.53 UJ	80	400
Indeno(1,2,3-cd)pyrene	0.087 U	0.10 U	0.089 U	0.086 U	0.085 U	NA	NA
Naphthalene	1.4 U	1.6 U	1.4 U	1.4 U	1.4 U	8	40
Phenanthrene	0.087 U	0.10 U	0.089 U	0.086 U	0.085 U	NA	NA
Pyrene	0.20 U	0.23 U	0.20 U	0.19 U	0.19 U	50	250

U-Constituent not detected. Detection limit indicated.

J-Estimated concentration.

VOC-Volatile Organic Compound.

PAH-Polynuclear Aromatic Hydrocarbon.

PAL-Wisconsin Department of Natural Resources (WDNR) Preventative Action Limit.

ES-Enforcement Standard (WDNR).

NA-Not Applicable. PAL or ES not available for this parameter.

Bolded values indicate concentration exceeding PAL.

Shaded and bolded values indicate concentration exceeding PAL and ES.

Table 2-5 (Continued)

Groundwater Sample Analytical Results
Treatment Performance Monitoring Well Samples
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006

Sample ID	MA3-TG5-2-062806-2	MA3-TG5-3-062806-3	MA3-TG6-1-062806-4	MA3-TG6-2-062806-5	MA3-TG6-3-062806-6	WDNR PAL (ug/L)	WDNR ES (ug/L)
Well ID	TG5-2	TG5-3	TG6-1	TG6-2	TG6-3		
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Date	6/28/2006	6/28/2006	6/28/2006	6/28/2006	6/28/2006		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
VOCs							
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5	5
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	140	700
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	68.6	343
Total Xylenes	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	124	650
PAHs							
Acenaphthene	1.0 U	1.4 U	1.0 U	0.98 U	1.2 U	NA	NA
Acenaphthylene	1.6 U	2.2 U	1.6 U	1.5 U	1.8 U	NA	NA
Anthracene	0.045 U	0.064 U	0.045 U	0.043 U	0.053 U	600	3000
Benzo(a)anthracene	0.022 U	0.032 U	0.022 U	0.072 J	0.026 U	NA	NA
Benzo(a)pyrene	0.022 UJ	0.032 UJ	0.022 UJ	0.079 J	0.026 UJ	0.02	0.2
Benzo(b)fluoranthene	0.045 U	0.064 U	0.045 U	0.075 J	0.053 U	0.02	0.2
Benzo(g,h,i)perylene	0.11 U	0.16 U	0.11 U	0.11 U	0.13 U	NA	NA
Benzo(k)fluoranthene	0.022 U	0.032 U	0.022 U	0.031 J	0.026 U	NA	NA
Chrysene	0.090 U	0.13 U	0.089 U	0.087 U	0.11 U	0.02	0.2
Dibenz(a,h)anthracene	0.045 U	0.064 U	0.045 U	0.043 U	0.053 U	NA	NA
Fluoranthene	0.062 J	0.064 U	0.045 U	0.32	0.068 J	80	400
Fluorene	0.56 UJ	0.80 UJ	0.56 UJ	0.54 UJ	0.66 UJ	80	400
Indeno(1,2,3-cd)pyrene	0.090 U	0.13 U	0.089 U	0.087 U	0.11 U	NA	NA
Naphthalene	1.5 U	2.1 U	1.4 U	1.4 U	1.7 U	8	40
Phenanthrene	0.090 U	0.13 U	0.089 U	0.087 U	0.11 U	NA	NA
Pyrene	0.20 U	0.29 U	0.20 U	0.29 J	0.24 U	50	250

U-Constituent not detected. Detection limit indicated.

J-Estimated concentration.

VOC-Volatile Organic Compound.

PAH-Polynuclear Aromatic Hydrocarbon.

PAL-Wisconsin Department of Natural Resources (WDNR) Preventative Action Limit.

ES-Enforcement Standard (WDNR).

NA-Not Applicable. PAL or ES not available for this parameter.

Bolded values indicate concentration exceeding PAL.

Shaded and bolded values indicate concentration exceeding PAL and ES.

Table 2-5 (Continued)

**Groundwater Sample Analytical Results
Field Blank and Trip Blank Samples
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006**

Sample ID	MA3-FB-062706-1	MA3-FB-062706-2	MA3-FB-062806-19	MA3-TB	MA3-TB-062806-2	WDNR PAL (ug/L)	WDNR ES (ug/L)
Well ID	Field Blank	Field Blank	Field Blank	Trip Blank	Trip Blank		
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater		
Date	6/27/2006	6/27/2006	6/28/2006	6/27/2006	6/28/2006		
Units	ug/l	ug/l	ug/l	ug/l	ug/l		
VOCs							
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5	5
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	140	700
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	68.6	343
Total Xylenes	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	124	650
PAHs							
Acenaphthene	1 U	0.99 U	0.96 U	--	--	NA	NA
Acenaphthylene	1.6 U	1.5 U	1.5 U	--	--	NA	NA
Anthracene	0.045 U	0.044 U	0.043 U	--	--	600	3000
Benzo(a)anthracene	0.023 U	0.022 U	0.021 U	--	--	NA	NA
Benzo(a)pyrene	0.023 U	0.022 U	0.021 UJ	--	--	0.02	0.2
Benzo(b)fluoranthene	0.045 U	0.044 U	0.043 U	--	--	0.02	0.2
Benzo(g,h,i)perylene	0.11 U	0.11 U	0.11 U	--	--	NA	NA
Benzo(k)fluoranthene	0.023 U	0.022 U	0.021 U	--	--	NA	NA
Chrysene	0.091 U	0.088 U	0.085 U	--	--	0.02	0.2
Dibenz(a,h)anthracene	0.045 U	0.044 U	0.043 U	--	--	NA	NA
Fluoranthene	0.045 U	0.044 U	0.043 U	--	--	80	400
Fluorene	0.57 U	0.55 U	0.53 UJ	--	--	80	400
Indeno(1,2,3-cd)pyrene	0.091 U	0.088 U	0.085 U	--	--	NA	NA
Naphthalene	1.5 U	1.4 U	1.4 U	--	--	8	40
Phenanthrene	0.091 U	0.088 U	0.085 U	--	--	NA	NA
Pyrene	0.2 U	0.2 U	0.19 U	--	--	50	250

U-Constituent not detected. Detection limit indicated.

J-Estimated concentration.

VOC-Volatile Organic Compound.

PAH-Polynuclear Aromatic Hydrocarbon.

PAL-Wisconsin Department of Natural Resources (WDNR) Preventative Action Limit.

ES-Enforcement Standard (WDNR).

NA-Not Applicable. PAL or ES not available for this parameter.

Bolded values indicate concentration exceeding PAL.

Shaded and bolded values indicate concentration exceeding PAL and ES.

Table 2-6

**Concentration Trends in Groundwater Monitoring Wells
Third Quarter 2003 through Second Quarter 2006
Moss-American Site
Milwaukee, Wisconsin**

	MW-7S	MW-32S	MW-33S	MW-34S	MW-35S	TG1-1
<u>Benzene (ug/L)</u>						
Third Quarter (September '03)	10 U	0.2 U	0.3 J	10 U	0.2 U	2 U
Fourth Quarter (December '03)	2.3 J	0.2 U	0.2 U	6.6	0.2 U	1 U
First Quarter (March '04)	4 U	0.2 U	4 J	5.7 J	0.2 U	1.5
Second Quarter (June '04)	2 U	0.2 U	1 U	7.8 J	0.2 U	1 U
Third Quarter (September '04)	2.2 J	0.2 U	1 U	7.1 J	0.2 U	2 U
Fourth Quarter (December '04)	8.6	0.2 U	0.2 U	7.2 J	0.2 U	0.5 J
First Quarter (March '05)	2.9 J	0.2 U	0.2 U	6.2 J	0.2 U	1 U
Second Quarter (June '05)	1.6 J	0.2 U	0.2 U	6 J	0.2 U	1 U
Third Quarter (September '05)	1.8	0.2 U	0.2 U	7.3	0.2 U	0.8 J
Fourth Quarter (December '05)	1.7 J	0.2 U	0.2 U	5.0 J	0.2 U	1.0 U
First Quarter (March '06)	2.0 U	0.2 U	0.2 U	7.4 J	0.2 U	0.6 J
Second Quarter (June '06)	0.2 U	0.2 U	0.2 U	6.9 J	0.2 U	1.0 U
<u>Naphthalene (ug/L)</u>						
Third Quarter (September '03)	3,800	1.3 U	2,600	5,000	1.2 U	5,800
Fourth Quarter (December '03)	3,000	1.4 U	58 J	6,500 J	1.3 U	1,500
First Quarter (March '04)	2,500	1.4 UJ	660 J	7,400	1.4 U	2,200
Second Quarter (June '04)	2,700	1.6 U	600	6,800	1.5 U	1,500
Third Quarter (September '04)	2,700	1.6 U	970	11,000 J	1.7 U	3,200
Fourth Quarter (December '04)	1,600	1.5 U	140	5,700	1.5 U	1,600
First Quarter (March '05)	1,600	1.6 U	170	6,000	1.6 U	5,400
Second Quarter (June '05)	1,700	1.7 U	240	7,600	1.6 U	1,500
Third Quarter (September '05)	1,900	1.7 U	290	6,900	1.7 U	4,000
Fourth Quarter (December '05)	1,000	1.8 U	27	4,400 J	1.7 U	4,300
First Quarter (March '06)	1,000	1.5 U	1.7 U	6,400	2.0 J	3,200
Second Quarter (June '06)	1.4 U	1.4 U	7.1 J	6500	1.4 U	1,100

Table 2-6 (Continued)

Concentration Trends in Groundwater Monitoring Wells
 Third Quarter 2003 through Second Quarter 2006
 Moss-American Site
 Milwaukee, Wisconsin

	MW-7S	MW-32S	MW-33S	MW-34S	MW-35S	TG1-1
Fluorene (ug/L)						
Third Quarter (September '03)	11	0.19 U	88	86	0.18 U	2,400
Fourth Quarter (December '03)	8	0.18 U	0.84 J	180 J	0.17 U	150
First Quarter (March '04)	7	0.18 UJ	13	470	0.21 J	160
Second Quarter (June '04)	6.9	0.17 U	19	280	0.19 J	150
Third Quarter (September '04)	7.8	0.18 U	59	2,100 J	1.3	800
Fourth Quarter (December '04)	7.5	0.17 U	6.9	99	0.39 J	420
First Quarter (March '05)	6.5	0.18	9.1	370	0.18 U	2,500
Second Quarter (June '05)	6.3	0.52 U	48	640	0.5 U	320
Third Quarter (September '05)	5.8	0.53 U	56	440	0.53 U	1,100
Fourth Quarter (December '05)	4.2	0.56 U	3.0	94 J	0.52 U	2,100
First Quarter (March '06)	4.0	0.48 U	1.2	93	0.50 U	750
Second Quarter (June '06)	0.53 U	0.56 U	38	110	0.54 U	160 J
Benzo(a) pyrene (ug/L)						
Third Quarter (September '03)	0.022 U	0.29 J	0.021 U	0.047 J	0.02 U	190
Fourth Quarter (December '03)	0.019 U	0.02 U	0.02 U	5.9 J	0.028 J	5.9
First Quarter (March '04)	0.019 U	0.02 UJ	0.02 UJ	29	0.02 U	6.2
Second Quarter (June '04)	0.019 U	0.019 U	0.019 U	17	0.022 J	5.1
Third Quarter (September '04)	0.02 U	0.02 U	0.021 U	140 J	0.021 U	56
Fourth Quarter (December '04)	0.019 U	0.019 U	0.02 U	0.15	0.019 U	33
First Quarter (March '05)	0.02 U	0.02 U	0.019 U	21	0.02 U	200
Second Quarter (June '05)	0.024 J	0.021 U	0.021 U	42	0.02 U	21
Third Quarter (September '05)	0.021 U	0.021 U	0.021 U	23	0.021 U	91
Fourth Quarter (December '05)	0.021 U	0.022 U	0.024 U	0.55 J	0.021 U	180
First Quarter (March '06)	0.020 U	0.019 U	0.021 U	0.24	0.020 U	63
Second Quarter (June '06)	0.021 U	0.022 U	0.021 U	0.18	0.022 U	5.6 J

U - Constituent not detected. Detection limit indicated.

J - Estimated concentration.

ug/L - Micrograms per liter.

Table 2-7
Groundwater Sample Analytical Results
Treatment Performance Monitoring Wells- Nutrient and Biological Parameters
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006

Parameter (mg/l)	Sample Identification					
	TG1-1	TG1-2	TG1-3	TG2-1	TG2-2	TG2-3
Nitrogen (Kjeldahl)	0.63 J	1.5	1.6	0.50 U	0.53 J	1.5
Nitrite Nitrogen	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
Nitrate Nitrogen	0.04 U	0.066 J	0.040 UJ	0.040 UJ	0.058 J	0.040 UJ
Ammonia Nitrogen	0.85	1.3	1.7	0.27 J	0.48 J	1.6
Ortho-Phosphate as P	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Biochemical oxygen demand	4.5 U	5.3 U	3.2 U	1.5 U	1.7 U	4.7 U
Total Organic Carbon	7.8	9.7	10.1	2.2	2.5	10.9
Total Phosphorus as PO4	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Chemical oxygen demand	33.3	32.9	30.2	9.5	8.7	31.7
Degrader Microbial Population (mean) (CFU/ml)	710	100 U	100 U	100 U	100 U	720
Total Microbial Population (mean) (CFU/ml)	4000	71000	85000	1100	280	45000

Parameter (mg/l)	Sample Identification					
	TG3-1	TG3-2	TG3-3	TG4-1	TG4-2	TG4-3
Nitrogen (Kjeldahl)	0.72 J	0.94 J	1.6	1.0	0.85 J-	0.94 J-
Nitrite Nitrogen	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
Nitrate Nitrogen	0.040 UJ	0.040 UJ	0.040 UJ	0.040 UJ	0.040 UJ	0.040 UJ
Ammonia Nitrogen	0.20 U	0.81	2.0	0.72	0.85	1.1
Ortho-Phosphate as P	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Biochemical oxygen demand	1.8 U	2.4 U	12.7	1.9 U	2.8 U	2.3 U
Total Organic Carbon	9.4	8.6	9.9	9.2	10.3	10.3
Total Phosphorus as PO4	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Chemical oxygen demand	26.2	24.2	28.6	24.9	28.9	30.4
Degrader Microbial Population (mean) (CFU/ml)	130	920	240	200	2400	2000
Total Microbial Population (mean) (CFU/ml)	1600	1100	17000	4400	2200	5000

Parameter (mg/l)	Sample Identification					
	TG5-1	TG5-2	TG5-3	TG6-1	TG6-2	TG6-3
Nitrogen (Kjeldahl)	0.50 U	0.50 U	0.50 U	1.9	0.80 J	0.73 J
Nitrite Nitrogen	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U
Nitrate Nitrogen	0.040 UJ	0.040 U	0.040 UJ	0.040 UJ	0.040 UJ	0.040 U
Ammonia Nitrogen	0.20 U	0.77	0.77	2.0	0.77	0.89
Ortho-Phosphate as P	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Biochemical oxygen demand	1.8 U	2.3 U	2.1 U	3.3 U	2.1 U	2.0 U
Total Organic Carbon	3.9	6.2	5.6	8.6	8.4	7.6
Total Phosphorus as PO4	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Chemical oxygen demand	12.3	16.1	16.2	23.7	27.7	21.7
Degrader Microbial Population (mean) (CFU/ml)	100 U	1100	100 U	12000	1800	320
Total Microbial Population (mean) (CFU/ml)	1100	820	620	44000	89000	250

U-Constituent not detected. Detection limit indicated.

J-Estimated concentration.

SECTION 3

EVALUATION OF PILOT SCALE OPERATIONS

Augmentation of the groundwater treatment system was initiated in October 2000 by injecting air at the treatment gates. In late June 2001, nutrient addition was initiated at TG1 using a solution containing potassium nitrate (KNO_3) and potassium phosphate (KHPO_4). System modifications were proposed in the Q2 2002 Quarterly Groundwater Treatment Performance Monitoring Report and are discussed in this section. Information regarding system performance is also presented.

3.1 DISSOLVED OXYGEN

During Q2 2006, the DO concentrations in most all of the wells remained below 2.0 mg/L. Three of the readings found DO concentrations above 2.0 mg/L.

N- NO_3 was only detected in two treatment performance wells sampled in Q2 2006 and N- NO_2 was not detected. This indicates that nitrogen is primarily present in its reduced state, and a reducing environment exists in the wells. Nitrogen data were not collected for the shallow monitoring wells.

Well packers were installed in the TG5 injection wells in June 2000; however, no discernable change in the DO levels were observed in the TG5 wells until Q1 and Q2 2003. TRONOX/WESTON attempted to install inflatable bladder packers in TG1 and TG2 injection wells in August 2001. However, the packers could not be properly installed due to the injection well configuration.

TRONOX/WESTON will continue to evaluate alternatives for air introduction into the treatment gates.

3.2 NUTRIENTS AND pH

Nutrient injection was discontinued at gate area TG1 as a part of the site modifications recommended in the Q2 2002 Monitoring Report. This took place at the end of October 2002, after the Agencies granted approval. However, nutrient and contaminant levels will continue to be monitored.

Recommended guidelines for bioremediation of contaminants in site groundwater include a pH range of 6.5 to 8.5 S.U. and a minimum carbon-nitrogen-phosphorous (C:N:P) ratio of 100:14:1. The range of pH values measured in the treatment performance monitoring wells (6.6 to 7.25 S.U.) is sufficient to facilitate biological activity.

Table 3-1 contains calculated C:N:P ratios for each of the treatment performance monitoring wells. During Q2 2006, the treatment performance monitoring wells did not exhibit the desired C:N:P ratio of 100:14:1. Nitrogen and phosphorous appear to be the limiting nutrients at the site.

3.3 BACTERIAL POPULATIONS

Total bacterial counts, in general, were found to have increased from Q1 2006 levels in most of the performance monitoring wells. Decreases or steady total bacterial counts were found in TG4-2 and TG6-1. Degradable bacterial counts in the performance monitoring wells were generally found to increase in most wells during Q2 2006 when compared to Q1 2006.

Figure 3-1 compares the degrader populations in TG1 and TG2 since Q1 2001. As indicated in Figure 3-1, there was a trend of general decrease in the degrader bacterial population levels in TG1 and TG2 from Q1 2001 to Q2 2004. It is uncertain what the cause of this bacterial decrease at the site was. With the exception of the Q1 2006 results, the degrader populations appear to be increasing over the last seven quarters.

3.4 HYDROGEOLOGY

TRONOX/WESTON identified a potential concern associated with the site hydrogeology in the Q2 2001 Monitoring Report. This concern is primarily based on the premise that low flow conditions may cause anoxic conditions and may inhibit TRONOX/WESTON's ability to introduce nutrients and other additives at an optimum level due to poor dispersion from the injection point. Low flow conditions are apparent based on the hydraulic gradient and flow velocities derived. A low flow velocity may be indirectly beneficial as a longer residence time in the treatment gate may allow for more effective biodegradation. No significant change was observed in relation to site hydrogeology during Q2 2006.

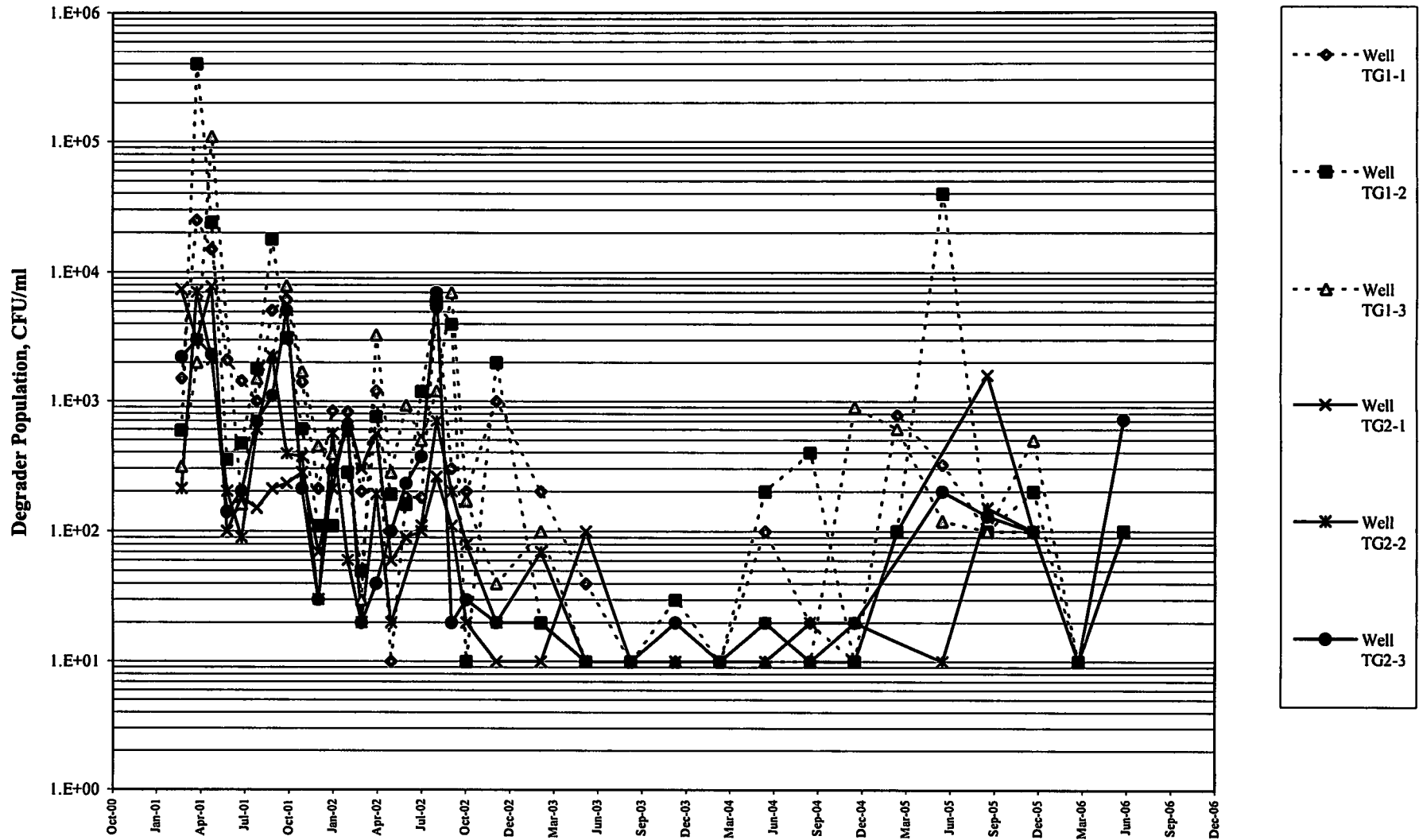
3.5 SITE MODIFICATIONS

Per the Q2 2002 Monitoring Report recommendations, modifications have been made to the system at the site. In October 2002, the performance monitoring well sampling frequency and scope reductions went into effect following the Agencies' approval. Groundwater sampling was revised to a quarterly sampling regime instead of a monthly sampling regime. In addition, shallow monitoring wells MW-3S, MW-10S, MW-13S, MW-20S, MW-25S, and MW-26S, and intermediate wells MW-3I, MW-7I, MW-9I, and MW-20I were removed from the groundwater monitoring program. However, these wells were not abandoned, per WDNR's request, with the exception of MW-20S and MW-20I abandoned during LMR diversion. Water levels will continue to be gathered from these wells on a quarterly basis to assist with the production of the groundwater elevation contour map. Discontinuation of nutrient injection at gate TG1 was also approved and was implemented in October 2002.

The hydrogeologic investigation proposed in the Q2 2002 Monitoring Report took place in December 2002. This work included the installation of nine piezometers (PZ-01 thru PZ-07, PZ-09, and PZ-10) as well as a staff gauge (SG-1). Records were updated with this information, and used to prepare the groundwater elevation contour map for this quarter.

Figure 3-1

Comparison of Degradable Populations in Treatment Gates 1 and 2 since Q1 2001
Moss-American Site
Milwaukee, Wisconsin



Note: Laboratory detection limit is shown where degrader population was not detected at or above the detection limit.

Table 3-1

**Calculation of Carbon:Nitrogen:Phosphorous Ratios
Treatment Performance Monitoring Wells
Moss-American Site
Milwaukee, Wisconsin
Second Quarter 2006**

Well	Carbon ¹ , mg/L	Total Nitrogen ² , mg/L	Phosphorous ³ , mg/L	C-N-P Ratio (100-14-1 desired)		
				100	14	1
TG1-1	7.8	0.85	ND	100	11	0
TG1-2	9.7	1.366	ND	100	14	0
TG1-3	10.1	1.7	ND	100	17	0
TG2-1	2.2	0.27	ND	100	12	0
TG2-2	2.5	0.538	ND	100	22	0
TG2-3	10.9	1.6	ND	100	15	0
TG3-1	9.4	ND	ND	100	0	0
TG3-2	8.6	0.81	ND	100	9	0
TG3-3	9.9	2	ND	100	20	0
TG4-1	9.2	0.72	ND	100	8	0
TG4-2	10.3	0.85	ND	100	8	0
TG4-3	10.3	1.1	ND	100	11	0
TG5-1	3.9	ND	ND	100	0	0
TG5-2	6.2	0.77	ND	100	12	0
TG5-3	5.6	0.77	ND	100	14	0
TG6-1	8.6	2	ND	100	23	0
TG6-2	8.4	0.77	ND	100	9	0
TG6-3	7.6	0.89	ND	100	12	0
Site Average	7.84	1.06	ND	100	12.1	0

1 - Carbon measured as Total Organic Carbon (non-purgable).

2 - Nitrogen measured as NH₃-N, NO₂-N, and NO₃-N.

3 - Phosphorous measured as phosphate (PO₄-P).

ND - Constituent not detected.

--- Not available

Shaded values indicate values at or above desired quantity.

SECTION 4
REFERENCES

Weston Solutions, Inc. (WESTON). 1999. *Quality Assurance Project Plan for Installation of Groundwater Remedial System*. October 1999.

WESTON. 2001. *Quality Assurance Project Plan for Installation of Groundwater Remedial System Addendum No.1*. May 2001.

APPENDIX A

June 2006 Groundwater Sample Analytical Results



I have reviewed the analytical data provided by Lancaster Laboratories for the Moss American Site in Milwaukee, Wisconsin upon the information that was provided by the laboratory.

Polynuclear Aromatic Hydrocarbons (PAHs by HPLC, U.S. EPA Method 8310)

SDG # KMA82

1. Samples:

<u>Client Sample</u> <u>Description:</u>	<u>Lab Sample</u> <u>Number</u>	<u>Matrix</u>	<u>Date</u> <u>Collected</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>
MA3-FB-062706-01	4803886	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-FB-062706-02	4803887	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW27S-062706-1	4803888	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW27S-062706-2-DP	4803889	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW28S-062706-12	4803890	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW29S-062706-9	4803891	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW30S-062606-1	4803892	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW31S-062706-8	4803893	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW32S-062706-3-BKG	4803895	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW32S-062706-4-MS	4803896	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW32S-062706-4-MSD	4803897	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW33S-062706-5	4803898	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW34S-062706-15	4803899	Grab G-water	06/27/06	06/30/06	7/7, 11 & 13
MA3-MW35S-062706-13	4803900	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW35S-062706-14-DP	4803901	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW36S-062706-11	4803902	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW37S-062706-10	4803903	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW5S-062606-2	4803904	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW6S-062706-7	4803905	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW7S-062706-16	4803906	Grab G-water	06/27/06	06/30/06	07/07/06
MA3-MW9S-062706-6	4803907	Grab G-water	06/27/06	06/30/06	07/07/06

2. Holding Times:

The samples were extracted and analyzed within the required holding times.

3. Method Blank:

Two methods blanks were associated with this SDG. The method blank SBLKWK1802 was analyzed with 07/07/06 with samples 4803886 thru 4803893, 4803895 thru 4803907, 4803899DL1 and 4803899DL2 and results were free of contamination.

The method blank SBLKWD1922 was analyzed on 07/13/06 with reanalyzed sample 4803899RE and results were free of contamination.

4. Surrogate:

The method blanks and the investigated samples had surrogate recoveries within the required quality control limits, except triphenylene for samples 4803899 and 4803899RE and diluted out for sample 4803899DL1. Also, nitrobenzene was diluted out for sample 4803899DL2. No action was taken because the sample was reanalyzed and diluted and still had recoveries outside the required control limits due to the sample matrix.

5. Matrix Spike/Matrix Spike Duplicate:

The matrix spike and matrix spike duplicate associated with samples 4803886 thru 4803893, 4803895, 4803898 thru 4803907, 4803899DL1 and 4803899DL2 recoveries were within the acceptance quality control limits. Also, the RPD% values were acceptable.

Sufficient sample volume was not available to perform a MS/MSD for this analysis. Therefore, a LCS/LCSD was performed to demonstrate precision and accuracy at batch level.

6. Laboratory Control Sample:

The laboratory control sample associated with samples 4803886 thru 4803893, 4803895 thru 4803907, 4803899DL1 and 4803899DL2 recoveries were within the acceptance quality control limits.

The laboratory control sample/ laboratory control sample duplicate associated with sample 4803899-RE recoveries were within the acceptance quality control limits. Also, the RPD% values were acceptable.

7. Retention Time:

All the retention time results were acceptable.

8. Initial and Continuing Calibration:

The initial calibration and continuing calibration verification were all acceptable.

However, the retention time, initial and continuing calibration results were used in the calculation from two detectors: naphthalene, acenaphthylene, 1-methylnaphthalene, 2-methylnaphthalene, fluorene, phenanthrene, and anthracene were taken from ultraviolet detector, and acenaphthene, fluoranthene, pyrene, benzo (a) anthracene, chrysene, benzo (b) fluoranthene, benzo (k) fluoranthene, benzo (a) pyrene, dibenzo (a, h) anthracene, benzo (g, h, i) perylene, and indeno (1, 2, 3-cd) pyrene were taken from fluorescence detector.

BETX (U.S. EPA Method 8021B)
SDG # MMA82

1. Samples:

<u>Client Sample</u>	<u>Lab Sample</u>	<u>Matrix</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>
<u>Description:</u>	<u>Number</u>	<u>Collected</u>	<u>Prepared</u>	<u>Analyzed</u>	
MA3-FB-062706-01	4803886	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-FB-062706-02	4803887	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW27S-062706-1	4803888	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW27S-062706-2-DP	4803889	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW28S-062706-12	4803890	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW29S-062706-9	4803891	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW30S-062606-1	4803892	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW31S-062706-8	4803893	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW32S-062706-3-BKG	4803895	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW32S-062706-4-MS	4803896	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW32S-062706-4-MSD	4803897	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW33S-062706-5	4803898	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW34S-062706-15	4803899	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW35S-062706-13	4803900	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW35S-062706-14-DP	4803901	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW36S-062706-11	4803902	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW37S-062706-10	4803903	Grab G-water	06/27/06	06/29/06	06/29/06
MA3-MW5S-062606-2	4803904	Grab G-water	06/27/06	06/30/06	06/30/06
MA3-MW6S-062706-7	4803905	Grab G-water	06/27/06	06/30/06	06/30/06
MA3-MW7S-062706-16	4803906	Grab G-water	06/27/06	06/30/06	06/30/06
MA3-MW9S-062706-6	4803907	Grab G-water	06/27/06	06/30/06	06/30/06
MA3-TB	4803908	Grab G-water	06/27/06	06/30/06	06/30/06

2. Holding Times:

All samples were analyzed within the required holding times.

3. Method Blank:

Three method blanks BLK1527, BLK1528 and BLK1529 were associated with this SDG. The method blank BLK1527 batch 06180A15A was analyzed on 06/29/06 with samples (4803866 thru 4803893 and 4803895 thru 4803906) results was free of contamination.

The method blank BLK1528 batch 06181A15A was analyzed on 06/30/06 with sample 4803908 results were free of contamination.

The method blank BLK1529 batch 06181A15B was analyzed on 06/30/06 with sample 4803907 results were free of contamination.

4. Matrix Spike:

The laboratory performed matrix spike on sample 4803895 associated with batch 06180A15A. The MS/MSD recoveries were within the quality control limits. Also, the RPD% values were acceptable.

The laboratory performed matrix spike on sample 4803838 associated with batch 06181A15. The MS recoveries were within the quality control limits.

5. Laboratory Control Sample:

The laboratory control sample/ laboratory control sample duplicate associated with batch 06180A15 recoveries were within the acceptance quality control limits. Also, the RPD% values were acceptable.

The laboratory control sample/ laboratory control sample duplicate associated with batch 06181A15 recoveries were within the acceptance quality control limits. Also, the RPD% values were acceptable.

6. Surrogate:

The method blanks and the investigated samples had surrogate recoveries within the required quality control limits.

7. Initial and Continuing Calibration:

All the initial calibration and continuing calibration results were within the quality control limits.



ANALYTICAL RESULTS

Prepared for:

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

405-775-5429

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 995398. Samples arrived at the laboratory on Wednesday, June 28, 2006. The PO# for this group is ZAKW1KEOK0A90089.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MA3-FB-062706-1 Groundwater	4803886
MA3-FB-062706-2 Groundwater	4803887
MA3-MW27S-062706-1 Groundwater	4803888
MA3-MW27S-062706-2-DP Groundwater	4803889
MA3-MW28S-062706-12 Groundwater.	4803890
MA3-MW29S-062706-9 Groundwater	4803891
MA3-MW30S-062606-1 Groundwater	4803892
MA3-MW31S-062706-8 Groundwater	4803893
MA3-MW32S-062706-3-BKG Groundwater	4803895
MA3-MW32S-062706-4-MS Groundwater	4803896
MA3-MW32S-062706-4-MSD Groundwater	4803897
MA3-MW33S-062706-5 Groundwater	4803898
MA3-MW34S-062706-15 Groundwater	4803899
MA3-MW35S-062706-13 Groundwater	4803900
MA3-MW35S-062706-14-DP Groundwater	4803901
MA3-MW36S-062706-11 Groundwater	4803902
MA3-MW37S-062706-10 Groundwater	4803903
MA3-MW5S-062606-2 Groundwater	4803904
MA3-MW6S-062706-7 Groundwater	4803905
MA3-MW7S-062706-16 Groundwater	4803906
MA3-MW9S-062706-6 Groundwater	4803907
MA3-TB- Groundwater	4803908

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.



1 COPY TO
1 COPY TO
1 COPY TO

Weston Solutions, Inc.
Tronox LLC
Data Package Group

Attn: Tom Graan
Attn: Roy Widmann

Questions? Contact your Client Services Representative
Gwen A Birchall at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Michele J. Smith".

Michele J. Smith
Group Leader



Lancaster Laboratories Sample No. WW 4803886

MA3-FB-062706-1 Groundwater
 062706-3,4 02687.007.007.0001
 Moss American
 Collected: 06/27/2006 08:00 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
 Reported: 08/02/2006 at 13:06
 Discard: 10/02/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

27FB1 SDG#: KMA82-01FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.5	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.6	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	1.0	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.57	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.091	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.045	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.045	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.20	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.023	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.045	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.023	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.045	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.091	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.091	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.023	ug/l	1

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 14:24	Steven A. Skiles	1
00774	PAH's in Water by HPLC	SW-846.8310	1	07/07/2006 04:59	Mark A. Clark	1



Lancaster Laboratories Sample No. WW 4803886

MA3-FB-062706-1 Groundwater
062706-3,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 08:00 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

27FB1	SDG#: KMA82-01FB				
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 14:24	Steven A Skiles 1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro 1



Lancaster Laboratories Sample No. WW 4803887

MA3-FB-062706-2 Groundwater
062706-4 02687.007.007.0001

Moss American
Collected: 06/27/2006 16:30 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

27FB2 SDG#: KMA82-02FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.99	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.55	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.088	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.044	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.044	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.20	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.022	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.044	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.022	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.044	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.088	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.088	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4803887

MA3-FB-062706-2 Groundwater
062706-4 02687.007.007.0001

Moss American
Collected: 06/27/2006 16:30 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

27FB2	SDG#: KMA82-02FB					
08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 14:54	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 05:38	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 14:54	Steven A Skiles	1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro	1



Lancaster Laboratories Sample No. WW 4803888

MA3-MW27S-062706-1 Groundwater
062706-1,4 02687.007.007.0001

Moss American
Collected: 06/27/2006 09:00 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

2727S SDG#: KMA82-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.96	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.53	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.085	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.043	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.043	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.043	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.043	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.085	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.085	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4803888

MA3-MW27S-062706-1 Groundwater
062706-1,4 02687.007.007.0001
Moss American
Collected: 06/27/2006 09:00 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

2727S	SDG#: KMA82-03					
08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 15:23	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 06:17	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 15:23	Steven A Skiles	1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro	1



Lancaster Laboratories Sample No. WW 4803889

MA3-MW27S-062706-2-DP Groundwater
062706-1,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 09:00 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

27SFD SDG#: KMA82-04FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene -	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.96	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.53	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.085	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.043	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.043	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.043	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.043	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.085	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.085	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4803890

MA3-MW28S-062706-12 Groundwater
062706-2,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 15:00 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35

Reported: 08/02/2006 at 13:06

Discard: 10/02/2006

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Oklahoma City OK 73126-8859

2728S SDG#: KMA82-05

08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 16:23	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 08:13	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 16:23	Steven A Skiles	1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro	1

1	06/29/2006 16:23	Steven A Skiles	1
1	07/07/2006 08:13	Mark A Clark	1
1	06/29/2006 16:23	Steven A Skiles	1
1	06/30/2006 05:30	Mark P Mastropietro	1



Lancaster Laboratories Sample No. WW 4803891

MA3-MW29S-062706-9 Groundwater
062706-2,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 13:50 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

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2729S SDG#: KMA82-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.97	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.54	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.086	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.043	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.043	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.022	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.043	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.022	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.043	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.086	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.086	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4803891

MA3-MW29S-062706-9 Groundwater
062706-2,4 02687.007.007.0001
Moss American
Collected: 06/27/2006 13:50 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

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2729S	SDG#: KMA82-06				
08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 16:52	Steven A Skiles 1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 08:52	Mark A Clark 1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 16:52	Steven A Skiles 1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro 1



Lancaster Laboratories Sample No. WW 4803892

MA3-MW30S-062606-1 Groundwater
062706-1,4 02687.007.007.0001

Moss American

Collected: 06/26/2006 16:30 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

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2630S SDG#: KMA82-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
08213	BTEX (8021)			Detection Limit		
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.3	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.4	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.93	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.51	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.082	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.041	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.041	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.041	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.041	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.082	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.10	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.082	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 17:22	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 09:31	Mark A Clark	1



Lancaster Laboratories Sample No. WW 4803892

MA3-MW30S-062606-1 Groundwater
062706-1,4 02687.007.007.0001
Moss American
Collected: 06/26/2006 16:30 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

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2630S	SDG#: KMA82-07				
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 17:22	Steven A Skiles 1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro 1



Lancaster Laboratories Sample No. WW 4803893

MA3-MW31S-062706-8 Groundwater
062706-2,4 02687.007.007.0001

Moss American
Collected: 06/27/2006 10:40 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

2731S SDG#: KMA82-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.94	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.52	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.083	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.042	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.042	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.042	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.042	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.083	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.10	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.083	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4803893

MA3-MW31S-062706-8 Groundwater
062706-2,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 10:40 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
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2731S	SDG#: KMA82-08					
08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 20:19	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 10:10	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 20:19	Steven A Skiles	1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro	1



Lancaster Laboratories Sample No. WW 4803895

MA3-MW32S-062706-3-BKG Groundwater
062706-1,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 09:10 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

4-32S SDG#: KMA82-09BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.6	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	1.0	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.56	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.089	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.044	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.044	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.20	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.022	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.044	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.022	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.044	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.089	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.089	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4803895

MA3-MW32S-062706-3-BKG Groundwater
062706-1,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 09:10 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

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Oklahoma City OK 73126-8859

4-32S	SDG#: KMA82-09BKG					
08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 17:51	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 02:24	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 17:51	Steven A Skiles	1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro	1



Lancaster Laboratories Sample No. WW 4803896

MA3-MW32S-062706-4-MS Groundwater
 062706-1,4 02687.007.007.0001
 Moss American
 Collected: 06/27/2006 09:10 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
 Reported: 08/02/2006 at 13:06
 Discard: 10/02/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

4-32S SDG#: KMA82-09MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	17.	0.2	ug/l	1
00777	Toluene	108-88-3	18.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	17.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	54.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	190.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	200.	1.6	ug/l	1
00783	Acenaphthene	83-32-9	200.	1.0	ug/l	1
00784	Fluorene	86-73-7	21.	0.56	ug/l	1
00785	Phenanthrene	85-01-8	6.5	0.089	ug/l	1
00789	Anthracene	120-12-7	3.2	0.044	ug/l	1
00807	Fluoranthene	206-44-0	3.3	0.044	ug/l	1
00811	Pyrene	129-00-0	22.	0.20	ug/l	1
00812	Benzo(a)anthracene	56-55-3	1.7	0.022	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	1.4	0.044	ug/l	1
00823	Benzo(a)pyrene	50-32-8	1.8	0.022	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	3.3	0.044	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	6.7	0.089	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	12.	0.11	ug/l	1
07409	Chrysene	218-01-9	6.7	0.089	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	1.4	0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4803896

MA3-MW32S-062706-4-MS Groundwater
062706-1,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 09:10 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

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4-32S	SDG#: KMA82-09MS				
08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 18:21	Steven A Skiles 1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 03:03	Mark A Clark 1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 18:21	Steven A Skiles 1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro 1



Lancaster Laboratories Sample No. WW 4803897

MA3-MW32S-062706-4-MSD Groundwater
 062706-1,4 02687.007.007.0001
 Moss American
 Collected: 06/27/2006 09:10 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
 Reported: 08/02/2006 at 13:06
 Discard: 10/02/2006

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 Oklahoma City OK 73126-8859

4-32S SDG#: KMA82-09MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	17.	0.2	ug/l	1
00777	Toluene	108-88-3	17.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	17.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	52.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	180.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	190.	1.6	ug/l	1
00783	Acenaphthene	83-32-9	200.	1.0	ug/l	1
00784	Fluorene	86-73-7	21.	0.56	ug/l	1
00785	Phenanthrene	85-01-8	6.5	0.089	ug/l	1
00789	Anthracene	120-12-7	3.2	0.044	ug/l	1
00807	Fluoranthene	206-44-0	3.3	0.044	ug/l	1
00811	Pyrene	129-00-0	22.	0.20	ug/l	1
00812	Benzo(a)anthracene	56-55-3	1.7	0.022	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	1.4	0.044	ug/l	1
00823	Benzo(a)pyrene	50-32-8	1.8	0.022	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	3.3	0.044	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	6.7	0.089	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	12.	0.11	ug/l	1
07409	Chrysene	218-01-9	6.6	0.089	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	1.4	0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4803897

MA3-MW32S-062706-4-MSD Groundwater
062706-1,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 09:10 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35

Reported: 08/02/2006 at 13:06

Discard: 10/02/2006

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

4-32S SDG#: KMA82-09MSD

08213 BTEX (8021) SW-846 8021B 1 06/29/2006 18:51 Steven A Skiles 1

00774 PAH's in Water by HPLC SW-846 8310 1 07/07/2006 03:41 Mark A Clark 1

01146 GC VOA Water Prep SW-846 5030B 1 06/29/2006 18:51 Steven A Skiles 1

03337 PAH Water Extraction SW-846 3510C 1 06/30/2006 05:30 Mark P Mastropietro 1



Lancaster Laboratories Sample No. WW 4803898

MA3-MW33S-062706-5 Groundwater
 062706-1,4 02687.007.007.0001

Moss American
 Collected: 06/27/2006 09:20 by MC

Account Number: 11947.

Submitted: 06/28/2006 09:35
 Reported: 08/02/2006 at 13:06
 Discard: 10/02/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

2733S SDG#: KMA82-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	1.9	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	7.1 J	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	30.	ug/l	1
00783	Acenaphthene	83-32-9	100.	0.97	ug/l	1
00784	Fluorene	86-73-7	38.	0.54	ug/l	1
00785	Phenanthrene	85-01-8	6.3	0.086	ug/l	1
00789	Anthracene	120-12-7	0.16 J	0.043	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.043	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.043	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.043	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.086	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.086	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for acenaphthylene. The reporting limit for this compound was raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Lancaster Laboratories Sample No. WW 4803898

MA3-MW33S-062706-5 Groundwater
062706-1,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 09:20 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35

Reported: 08/02/2006 at 13:06

Discard: 10/02/2006

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

2733S SDG#: KMA82-10

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 20:49	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 10:49	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 20:49	Steven A Skiles	1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro	1



Lancaster Laboratories Sample No. WW 4803899

MA3-MW34S-062706-15 Groundwater
 062706-3,4 02687.007.007.0001
 Moss American
 Collected: 06/27/2006 15:50 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
 Reported: 08/02/2006 at 13:06
 Discard: 10/02/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

2734S SDG#: KMA82-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	6.9 J	2.0	ug/l	10
00777	Toluene	108-88-3	N.D.	2.0	ug/l	10
00778	Ethylbenzene	100-41-4	25.	2.0	ug/l	10
00779	Total Xylenes	1330-20-7	70.	6.0	ug/l	10
Due to the nature of the sample matrix, normal reporting limits were not attained.						
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	6,500.	27.	ug/l	20
00782	Acenaphthylene	208-96-8	N.D.	130.	ug/l	1
00783	Acenaphthene	83-32-9	200.	0.94	ug/l	1
00784	Fluorene	86-73-7	110.	5.2	ug/l	10
00785	Phenanthrene	85-01-8	120.	0.84	ug/l	10
00789	Anthracene	120-12-7	9.6	0.42	ug/l	10
00807	Fluoranthene	206-44-0	14.	0.42	ug/l	10
00811	Pyrene	129-00-0	9.0	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	0.73	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	0.13 J	0.042	ug/l	1
00823	Benzo(a)pyrene	50-32-8	0.18	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.042	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.084	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.10	ug/l	1
07409	Chrysene	218-01-9	0.62	0.084	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	0.084 J	0.021	ug/l	1

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for acenaphthylene. The reporting limit for this compound was raised accordingly.

Surrogate recoveries were outside of QC limits. The analysis was repeated and surrogate recoveries were again outside of QC limits, indicating a matrix effect.

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4803899

MA3-MW34S-062706-15 Groundwater
 062706-3,4 02687.007.007.0001
 Moss American
 Collected: 06/27/2006 15:50 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
 Reported: 08/02/2006 at 13:06
 Discard: 10/02/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

2734S SDG#: KMA82-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 21:19	Steven A Skiles	10
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 11:27	Mark A Clark	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/11/2006 07:08	Mark A Clark	10
00774	PAH's in Water by HPLC	SW-846 8310	1	07/13/2006 17:03	Mark A Clark	20
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 21:19	Steven A Skiles	10
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro	1



Lancaster Laboratories Sample No. WW 4803900

MA3-MW35S-062706-13 Groundwater
062706-3,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 15:30 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35

Reported: 08/02/2006 at 13:06

Discard: 10/02/2006

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

2735S SDG#: KMA82-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.97	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.54	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.086	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.043	ug/l	1
00807	Fluoranthene	206-44-0	0.66	0.043	ug/l	1
00811	Pyrene	129-00-0	0.40 J	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.022	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.043	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.022	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.043	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.086	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.086	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4803900

MA3-MW35S-062706-13 Groundwater
062706-3,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 15:30 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35

Reported: 08/02/2006 at 13:06

Discard: 10/02/2006

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

2735S SDG#: KMA82-12

08213 BTEX (8021) SW-846 8021B 1 06/29/2006 22:18 Steven A Skiles 1

00774 PAH's in Water by HPLC SW-846 8310 1 07/07/2006 12:06 Mark A Clark 1

01146 GC VOA Water Prep SW-846 5030B 1 06/29/2006 22:18 Steven A Skiles 1

03337 PAH Water Extraction SW-846 3510C 1 06/30/2006 05:30 Mark P Mastropietro 1

Analysis Report



Lancaster Laboratories Sample No. WW 4803901

MA3-MW35S-062706-14-DP Groundwater
062706-3,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 15:30 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

35SFD SDG#: KMA82-13FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.95	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.53	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.085	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.042	ug/l	1
00807	Fluoranthene	206-44-0	0.65	0.042	ug/l	1
00811	Pyrene	129-00-0	0.40	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.042	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.042	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.085	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.085	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08213	BTEX (8021)	SW-846 8621B	1	06/29/2006 22:47	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 12:45	Mark A Clark	1



Lancaster Laboratories Sample No. WW 4803901

MA3-MW35S-062706-14-DP Groundwater
062706-3,4 02687.007.007.0001
Moss American
Collected: 06/27/2006 15:30 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

35SFD	SDG#: KMA82-13FD				
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 22:47	Steven A Skiles .1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro 1

Analysis Report



Lancaster Laboratories Sample No. WW 4803902

MA3-MW36S-062706-11 Groundwater
 062706-2,4 02687.007.007.0001
 Moss American
 Collected: 06/27/2006 14:30 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
 Reported: 08/02/2006 at 13:06
 Discard: 10/02/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

2736S SDG#: KMA82-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.96	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.53	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.085	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.043	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.043	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.043	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.043	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.085	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.085	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4803902

MA3-MW36S-062706-11 Groundwater
062706-2,4 02687.007.007.0001
Moss American
Collected: 06/27/2006 14:30 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:06
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

2736S	SDG#: KMA82-14				
08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 23:17	Steven A Skiles 1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 13:24	Mark A Clark 1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 23:17	Steven A Skiles 1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro 1



Lancaster Laboratories Sample No. WW 4803903

MA3-MW37S-062706-10 Groundwater
062706-2,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 14:10 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:07
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

2737S SDG#: KMA82-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.96	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.53	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.085	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.042	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.042	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.042	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.042	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.085	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.085	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08213	BTEX (8021)	SW-846 8021B	1	06/29/2006 23:47	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 14:03	Mark A Clark	1



Lancaster Laboratories Sample No. WW 4803903

MA3-MW37S-062706-10 Groundwater
062706-2,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 14:10 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35

Reported: 08/02/2006 at 13:07

Discard: 10/02/2006

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

2737S SDG#: KMA82-15

01146 GC VOA Water Prep

SW-846 5030B

1 06/29/2006 23:47

Steven A Skiles

1

03337 PAH Water Extraction

SW-846 3510C

1 06/30/2006 05:30

Mark P Mastropietro

1



Lancaster Laboratories Sample No. WW 4803904

MA3-MW5S-062606-2 Groundwater
062706-1,4 02687.007.007.0001

Moss American
Collected: 06/26/2006 16:45 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:07
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

26-5S SDG#: KMA82-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.94	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.52	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.084	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.042	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.042	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.042	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.042	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.084	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.10	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.084	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4803904

MA3-MW5S-062606-2 Groundwater
062706-1,4 02687.007.007.0001

Moss American
Collected: 06/26/2006 16:45 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:07
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

26-5S	SDG#: KMA82-16				
08213	BTEX (8021)	SW-846 8021B	1	06/30/2006 00:16	Steven A Skiles 1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 15:20	Mark A Clark 1
01146	GC VOA Water Prep	SW-846 5030B	1	06/30/2006 00:16	Steven A Skiles 1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro 1



Lancaster Laboratories Sample No. WW 4803905

MA3-MW6S-062706-7 Groundwater
062706-1,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 10:30 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:07
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

27-6S SDG#: KMA82-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.3	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.93	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.52	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.083	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.041	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.041	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo (a) anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo (b) fluoranthene	205-99-2	N.D.	0.041	ug/l	1
00823	Benzo (a) pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz (a, h) anthracene	53-70-3	N.D.	0.041	ug/l	1
00898	Indeno (1, 2, 3-cd) pyrene	193-39-5	N.D.	0.083	ug/l	1
00907	Benzo (g, h, i) perylene	191-24-2	N.D.	0.10	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.083	ug/l	1
07410	Benzo (k) fluoranthene	207-08-9	N.D.	0.021	ug/l	1

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08213	BTEX (8021)	SW-846 8021B	1	06/30/2006 00:46	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 15:59	Mark A Clark	1



Lancaster Laboratories Sample No. WW 4803905

MA3-MW6S-062706-7 Groundwater
062706-1,4 02687.007.007.0001
Moss American
Collected: 06/27/2006 10:30 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:07
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

27-6S SDG#: KMA82-17
01146 GC VOA Water Prep SW-846 5030B
03337 PAH Water Extraction SW-846 3510C

1	06/30/2006 00:46	Steven A Skiles	1
1	06/30/2006 05:30	Mark P Mastropietro	1

Analysis Report



Lancaster Laboratories Sample No. WW 4803906

MA3-MW7S-062706-16 Groundwater
 062706-3,4 02687.007.007.0001
 Moss American
 Collected: 06/27/2006 16:10 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
 Reported: 08/02/2006 at 13:07
 Discard: 10/02/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

27-7S SDG#: KMA82-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	1.2	0.2	ug/l	1
00777	Toluene	108-88-3	0.2 J	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	11.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	12.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	12. J	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	20.	ug/l	1
00783	Acenaphthene	83-32-9	22.	0.94	ug/l	1
00784	Fluorene	86-73-7	4.1	0.52	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.084	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.042	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.042	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.042	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.042	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.084	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.10	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.084	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for acenaphthylene. The reporting limit for this compound was raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Lancaster Laboratories Sample No. WW 4803906

MA3-MW7S-062706-16 Groundwater
062706-3,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 16:10 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:07
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

27-7S SDG#: KMA82-18

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08213	BTEX (8021)	SW-846 8021B	1	06/30/2006 01:16	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 16:38	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/30/2006 01:16	Steven A Skiles	1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro	1



Lancaster Laboratories Sample No. WW 4803907

MA3-MW9S-062706-6 Groundwater
062706-1,4 02687.007.007.0001

Moss American

Collected: 06/27/2006 10:10 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:07
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

27-9S SDG#: KMA82-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.95	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.53	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.084	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.042	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.042	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.042	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.042	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.084	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.084	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4803907

MA3-MW9S-062706-6 Groundwater
062706-1,4 02687.007.007.0001
Moss American
Collected: 06/27/2006 10:10 by MC

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:07
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

27-9S	SDG#: KMA82-19				
08213	BTEX (8021)	SW-846 8021B	1	06/30/2006 19:37	Steven A Skiles 1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 17:17	Mark A Clark 1
01146	GC VOA Water Prep	SW-846 5030B	1	06/30/2006 19:37	Steven A Skiles 1
03337	PAH Water Extraction	SW-846 3510C	1	06/30/2006 05:30	Mark P Mastropietro 1



Lancaster Laboratories Sample No. WW 4803908

MA3-TB- Groundwater
060627- 02687.007.007.0001
Moss American
Collected: n.a.

Account Number: 11947

Submitted: 06/28/2006 09:35
Reported: 08/02/2006 at 13:07
Discard: 10/02/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

MA-TB SDG#: KMA82-20TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08213	BTEX (8021)	SW-846 8021B	1	06/30/2006 13:11	Steven A Skiles	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/30/2006 13:11	Steven A Skiles	1



Quality Control Summary

Client Name: Tronox LLC
 Reported: 08/02/06 at 01:07 PM

Group Number: 995398

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 06180A15A	Sample number(s): 4803886-4803893,4803895-4803906							
Benzene	N.D.	0.2	ug/l	87	88	86-119	1	30
Toluene	N.D.	0.2	ug/l	90	91	82-119	1	30
Ethylbenzene	N.D.	0.2	ug/l	91	91	81-119	1	30
Total Xylenes	N.D.	0.6	ug/l	94	94	82-120	0	30
Batch number: 06180WAK026	Sample number(s): 4803886-4803893,4803895-4803907							
Naphthalene	N.D.	1.3	ug/l	78		57-109		
Acenaphthylene	N.D.	1.4	ug/l	84		67-99		
Acenaphthene	N.D.	0.90	ug/l	86		60-116		
Fluorene	N.D.	0.50	ug/l	91		75-102		
Phenanthrene	N.D.	0.080	ug/l	96		67-115		
Anthracene	N.D.	0.040	ug/l	93		68-113		
Fluoranthene	N.D.	0.040	ug/l	97		70-112		
Pyrene	N.D.	0.18	ug/l	97		69-113		
Benzo(a)anthracene	N.D.	0.020	ug/l	102		73-114		
Benzo(b)fluoranthene	N.D.	0.040	ug/l	104		72-113		
Benzo(a)pyrene	N.D.	0.020	ug/l	105		68-112		
Dibenz(a,h)anthracene	N.D.	0.040	ug/l	99		31-121		
Indeno(1,2,3-cd)pyrene	N.D.	0.080	ug/l	99		66-109		
Benzo(g,h,i)perylene	N.D.	0.10	ug/l	94		14-124		
Chrysene	N.D.	0.080	ug/l	99		70-111		
Benzo(k)fluoranthene	N.D.	0.020	ug/l	103		72-119		
Batch number: 06181A15A	Sample number(s): 4803908							
Benzene	N.D.	0.2	ug/l	90	90	86-119	0	30
Toluene	N.D.	0.2	ug/l	94	94	82-119	0	30
Ethylbenzene	N.D.	0.2	ug/l	95	96	81-119	1	30
Total Xylenes	N.D.	0.6	ug/l	98	98	82-120	1	30
Batch number: 06181A15B	Sample number(s): 4803907							
Benzene	N.D.	0.2	ug/l	90	90	86-119	0	30
Toluene	N.D.	0.2	ug/l	94	94	82-119	0	30
Ethylbenzene	N.D.	0.2	ug/l	95	96	81-119	1	30
Total Xylenes	N.D.	0.6	ug/l	98	98	82-120	1	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 06180A15A	Sample number(s): 4803886-4803893,4803895-4803906 UNSPK: 4803895								

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Quality Control Summary

Client Name: Tronox LLC
 Reported: 08/02/06 at 01:07 PM

Group Number: 995398

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzene	86	85	78-131	2	30				
Toluene	88	85	78-129	3	30				
Ethylbenzene	87	86	75-133	2	30				
Total Xylenes	89	87	84-131	2	30				

Batch number: 06180WAK026 Sample number(s): 4803886-4803893, 4803895-4803907 UNSPK: 4803895

Naphthalene	84	81	54-112	3	30				
Acenaphthylene	88	86	63-104	2	30				
Acenaphthene	90	89	59-114	1	30				
Fluorene	95	93	71-99	1	30				
Phenanthrene	98	97	66-115	1	30				
Anthracene	97	97	68-104	1	30				
Fluoranthene	99	98	67-104	1	30				
Pyrene	97	97	66-106	0	30				
Benzo(a)anthracene	103	103	63-111	0	30				
Benzo(b)fluoranthene	104	104	71-106	0	30				
Benzo(a)pyrene	107	106	69-109	1	30				
Dibenz(a,h)anthracene	100	100	62-115	0	30				
Indeno(1,2,3-cd)pyrene	100	100	56-112	0	30				
Benzo(g,h,i)perylene	87	87	56-115	0	30				
Chrysene	100	99	76-103	1	30				
Benzo(k)fluoranthene	103	104	70-109	0	30				

Batch number: 06181A15A Sample number(s): 4803908 UNSPK: P803838

Benzene	101		78-131						
Toluene	104		78-129						
Ethylbenzene	105		75-133						
Total Xylenes	108		84-131						

Batch number: 06181A15B Sample number(s): 4803907 UNSPK: P803838

Benzene	101		78-131						
Toluene	104		78-129						
Ethylbenzene	105		75-133						
Total Xylenes	108		84-131						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX (8021)
 Batch number: 06180A15A
 Trifluorotoluene-P

4803886	105
4803887	104
4803888	104
4803889	103
4803890	104
4803891	104

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Quality Control Summary

Client Name: Tronox LLC
 Reported: 08/02/06 at 01:07 PM

Group Number: 995398

Surrogate Quality Control

4803892	104
4803893	104
4803895	104
4803896	103
4803897	103
4803898	103
4803899	101
4803900	103
4803901	103
4803902	104
4803903	104
4803904	104
4803905	104
4803906	100
Blank	104
LCS	102
LCSD	103
MS	103
MSD	103

Limits: 69-129

Analysis Name: PAH's in Water by HPLC

Batch number: 06180WAK026

	Nitrobenzene	Triphenylene
--	--------------	--------------

4803886	99	103
4803887	103	107
4803888	100	104
4803889	101	103
4803890	96	99
4803891	101	104
4803892	99	104
4803893	96	100
4803895	103	105
4803896	102	103
4803897	98	104
4803898	105	107
4803899	18788*	140*
4803900	95	100
4803901	98	100
4803902	95	97
4803903	101	105
4803904	100	105
4803905	94	99
4803906	98	107
4803907	94	98
Blank	101	103
LCS	100	102
MS	102	103
MSD	98	104

Limits: 80-138

55-130

Analysis Name: BTEX (8021)

Batch number: 06181A15A

Trifluorotoluene-P

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Quality Control Summary

Client Name: Tronox LLC
Reported: 08/02/06 at 01:07 PM

Group Number: 995398

Surrogate Quality Control

4803908	103
Blank	104
LCS	102
LCSD	103
MS	103

Limits: 69-129

Analysis Name: BTEX (8021)
Batch number: 06181A15B
Trifluorotoluene-P

4803907	104
Blank	104
LCS	102
LCSD	103
MS	103

Limits: 69-129

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

amt 11947 gm 995398 # 4803886+908

COC ID: COC4-06272006

Chain of Custody Record



Client **Kerr McGee**
 Site Name **Moss American** Contact Name **Tom Green**
 W. O. **02987.007.007.0001** Contact Phone No. **847-918-4142**
 Lab **LANCASTER LABS** Lab Contact **C. SWEIGART**
 TAT Lab Phone **717-858-2308 X1527**

8021B-BTEX
 PAH
 B310

Filtered
 Container
 Preservative

Om-Glass Vial
 HCl

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected													
	MAJ-FB-062706-1	W		N	6/27/2006 08:00	3												
	MAJ-FB-062706-2	W		N	6/27/2006 16:30	3	2											
	MAJ-MW27S-062706-1	W		N	6/27/2006 09:00	3												
	MAJ-MW27S-062706-2-DP	W		N	6/27/2006 09:00	3												
	MAJ-MW28S-062706-12	W		N	6/27/2006 15:00	3												
	MAJ-MW29S-062706-9	W		N	6/27/2006 13:50	3												
	MAJ-MW30S-062706-1	W		N	6/26/2006 16:30	3												
	MAJ-MW31S-062706-8	W		N	6/27/2006 10:40	3												
	MAJ-MW32S-062706-3	W		N	6/27/2006 09:10	3												
	MAJ-MW32S-062706-4-MSD	W		Y	6/27/2006 09:10	6												
	MAJ-MW33S-062706-5	W		N	6/27/2006 09:20	3												
	MAJ-MW34S-062706-15	W		N	6/27/2006 15:50	3												
	MAJ-MW35S-062706-13	W		N	6/27/2006 15:30	3												
	MAJ-MW35S-062706-14-DP	W		N	6/27/2006 15:30	3												
	MAJ-MW36S-062706-11	W		N	6/27/2006 14:30	3												
	MAJ-MW37S-062706-10	W		N	6/27/2006 14:10	3												
	MAJ-MW38S-062606-2	W		N	6/26/2006 16:45	3												
	MAJ-MW6S-062706-7	W		N	6/27/2006 10:30	3												
	MAJ-MW7S-062706-16	W		N	6/27/2006 16:10	3												
	MAJ-MW9S-062706-6	W		N	6/27/2006 10:10	3												

Remarks/Comments

Sampled By M. Cashillo

Lab Use Only

COC Tape was present on outer package Y N
 Received in good condition Y N

Temp of Cooler when Received, C
 1 2 3 4 5

COC Tape was unbroken on outer package Y N
 Labels indicate Properly Preserved Y N

COC Tape was present on sample Y N
 Received within Holding Time Y N

COC Tape was unbroken on sample Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<u>[Signature]</u>	6/27/06 1800						

[Signature] 6/28/06 0935

RECEIVED
 AUG 07 2006

acct 11947 9:10 9.95398 #4803886-908

COC ID: COC3-06272006

Chain of Custody Record



Client **Kerr McGee**
 Site Name **Moss American**
 W. O. **02687.007.007.0001**
 Lab **LANCASTER LABS**
 TAT **Per Quote**

Contact Name **Tom Green**
 Contact Phone No. **847-918-4142**
 Lab Contact **C. SWEIGART**
 Lab Phone **717-856-2308 X1527**

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected	310-PAIRS	Filtered	Container	Preservative
	MA3-FB-062706-1	W		N	6/27/2006 08:00	2			
	MA3-FB-062706-2	W		N	6/27/2006 16:30	2			
	MA3-MW345-062706-13	W		N	6/27/2006 15:50	2			
	MA3-MW338-062706-13	W		N	6/27/2006 15:30	2			
	MA3-MW335-062706-14-DP	W		N	6/27/2006 15:30	2			
	MA3-MW78-062706-16	W		N	6/27/2006 16:10	2			

Remarks/Comments

Sampled By N. Castillo

Lab Use Only

Temp of Cooler when Received, C

1	2	3	4	5
---	---	---	---	---

Relinquished By: [Signature] Date / Time: 6/27/06 1800

Received By: _____ Date / Time: _____

Relinquished By: _____ Date / Time: _____

Received By: [Signature] Date / Time: 6/28/06 0935

COC Tape was present on outer package Y N
 Received in good condition Y N
 COC Tape was unbroken on outer package Y N
 Labels indicate Property Preserved Y N
 COC Tape was present on sample Y N
 Received within Holding Time Y N
 COC Tape was unbroken on sample Y N

acct 11947 g/h 995998 #480886-908

COC ID: COC1-06272006

Chain of Custody Record



Client Kerr McGee

Site Name Moss American

W. O. 02887.007.007.0001

Lab LANCASTER LABS

TAT PER QUOTE

Contact Name Tom Green

Contact Phone No. 847-918-4142

Lab Contact C. SWEIGART

Lab Phone 717-658-2308 X1527

8310-PAHS

Filtered
Container
Preservative

0mL Amber G
N/A

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected													
	MAJ-MW33S-062706-5	W		N	6/27/2006 09:20	2												
	MAJ-MW6S-062706-7	W		N	6/27/2006 10:30	2												
	MAJ-MW9S-062706-6	W		N	6/27/2006 10:10	2												
	MAJ-MW33S-062706-4-MSD	W		N	6/27/2006 9:10	4												

Remarks/Comments

Sampled By N. Castile

Lab Use Only

COC Tape was present on outer package Y N
 Received in good condition Y N
 COC Tape was unbroken on outer package Y N
 Labels indicate Property Preserved Y N
 COC Tape was present on sample Y N
 Received within Holding Time Y N
 COC Tape was unbroken on sample Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<u>allg</u>	<u>6/27/06 1800</u>						

[Signature] 6/28/06 0935

acct 11947 ghp 995898 # 4803886-908

COC ID: COC2-06272006

Chain of Custody Record



Client **Kerr McGee**
 Site Name **Moss American**
 W. O. **02687.007.007.0001**
 Lab **LANCASTER LABS**
 TAT
 Contact Name **Tom Graan**
 Contact Phone No. **847-918-4142**
 Lab Contact **C. SWEIGART**
 Lab Phone **717-858-2308 X1527**

8310-PAHS													

Filtered
 Container
 Preservative
 Opt. Amber C
 N/A

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected								
	MAJ-MW285-062706-12	W		N	6/27/2006 15:00	2							
	MAJ-MW295-062706-9	W		N	6/27/2006 13:50	2							
	MAJ-MW319-062706-8	W		N	6/27/2006 10:40	2							
	MAJ-MW365-062706-11	W		N	6/27/2006 14:30	2							
	MAJ-MW375-062706-10	W		N	6/27/2006 14:10	2							

Remarks/Comments
 Sampled By *M. Casillo*
[Signature]

Lab Use Only

Temp of Cooler when Received, C
 1 2 3 4 5

COC Tape was present on outer package Y N
 COC Tape was unbroken on outer package Y N
 COC Tape was present on sample Y N
 COC Tape was unbroken on sample Y N

Received in good condition Y N
 Labels indicate Properly Preserved Y N
 Received within Holding Time Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<i>[Signature]</i>	6/27/06						

[Signature] 6/28/06 0735

acct 11947 gnd 995398 # 4803886-908

COC ID: COC1-0626-27200

Chain of Custody Record



Client **Kerr McGee**
 Site Name **Mois American**
 W. O. **02687.007.007.0001**
 Lab **LANCASTER LABS**
 TAT **2 weeks**
 Contact Name **Tom Green**
 Contact Phone No. **847-918-4142**
 Lab Contact **C. SWEIGART**
 Lab Phone **717-658-2308 X1627**

310-PHIS	Filtered	Container	OmL Amber Cl
		Preservative	N/A

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected	
	MA3-MW275-062706-1	W		N	6/27/2006 09:00	2
	MA3-MW275-062706-2-DP	W		N	6/27/2006 09:00	2
	MA3-MW308-062605-1	W		N	6/26/2006 16:30	2
	MA3-MW325-062706-3	W		N	6/27/2006 09:10	2
	MA3-MW33-062605-1	W		N	6/26/2006 16:45	2

Remarks/Comments

Sampled By McCarthy

Lab Use Only

COC Tape was present on outer package Y N
 Received in good condition Y N
 COC Tape was unbroken on outer package Y N
 Labels indicate Property Preserved Y N
 COC Tape was present on sample Y N
 Received within Holding Time Y N
 COC Tape was unbroken on sample Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<u>McCarthy</u>	<u>6/27/06 1800</u>					<u>[Signature]</u>	<u>6/28/06 09:35</u>

I have reviewed the analytical data provided by Lancaster Laboratories for the Moss American Site in Milwaukee, Wisconsin upon the information that was provided by the laboratory.

Polynuclear Aromatic Hydrocarbons (PAHs by HPLC, U.S. EPA Method 8310)

SDG # KMA83

1. Samples:

<u>Client Sample</u> <u>Description:</u>	<u>Lab Sample</u> <u>Number</u>	<u>Matrix</u>	<u>Date</u> <u>Collected</u>	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>
MA3-FB-062806-19	4804567	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	07/01/06	07/08, 11
MA3-TG1-2-062806-17	4804570	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG1-3-062806-18	4804571	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG2-1-062806-13	4804572	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG2-2-062806-14	4804573	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG2-3-062806-15	4804574	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG3-1-062806-10	4804575	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG3-2-062806-11	4804576	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG3-3-062806-12	4804577	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG4-1-062806-7	4804578	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG4-2-062806-8	4804579	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG4-2-062806-8-MS	4804580	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG4-2-062806-8-MSD	4804581	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG4-3-062806-9	4804582	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG4-3-062806-9-DP	4804583	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG5-1-062806-1	4804584	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG5-2-062806-2	4804585	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG5-3-062806-3	4804586	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG6-1-062806-4	4804587	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG6-2-062806-5	4804588	Grab G-water	06/28/06	07/01/06	07/08/06
MA3-TG6-3-062806-6	4804589	Grab G-water	06/28/06	07/01/06	07/08/06

2. Holding Times:

The samples were extracted and analyzed within the required holding times. Samples 4804570 and 4804571 were re-extracted and re-analyzed past the required holding time. Samples results should be estimated as (J/UJ). Samples results for 4804570 and 4804571 reported from the first analysis 07/08/06.

3. Method Blank:

Two methods blanks were associated with this SDG. The method blank SBLKWJ1812 was analyzed on 07/07/06 with samples 4804567, 4804569 thru 4804589 and 4804569DL and results were free of contamination.

The method blank SBLKWD1922 was analyzed on 07/13/06 with reanalyzed sample 4804570RE and 4804571RE and results were free of contamination.

4. Surrogate:

The method blanks and the investigated samples had surrogate recoveries within the required quality control limits, except triphenylene for samples 4804569 and in sample 4804569RE triphenylene were diluted out. No action was taken because the sample was reanalyzed and diluted and still had recoveries outside the required control limits due to the sample matrix.

5. Matrix Spike/Matrix Spike Duplicate:

A matrix spike was performed on sample 4804579. The MS/MSD associated with samples 4804567, 4804569 thru 4804579, 4804582 thru 4804589 and 4804569DL recoveries were within the acceptance quality control limits, except MSD for fluorene, fluoranthene, chrysene, benzo (a) fluoranthene and benzo (a) pyrene. No action was applied because the LCS recoveries were acceptable. However, the RPD% values were acceptable.

Sufficient sample volume was not available to perform a MS/MSD for this analysis. Therefore, a LCS/LCSD was performed to demonstrate precision and accuracy at batch level and were associated with re-analyzed samples 4804570RE and 4804571RE.

6. Laboratory Control Sample:

The laboratory control sample associated with samples 4804567, 4804569 thru 4804589 and 4804569DL recoveries were within the acceptance quality control limits, except for fluorene and benzo (a) pyrene were outside the upper control limits. Therefore, qualify the detected results for fluorene and benzo (a) pyrene as estimated (J) for the associated samples 4804567, 4804569 thru 4804589 and 4804569DL.

The laboratory control sample/ laboratory control sample duplicate associated with samples 4804570RE and 4804571RE recoveries were within the acceptance quality control limits. Also, the RPD% values were acceptable.

7. Retention Time:

All the retention time results were acceptable.

8. Initial and Continuing Calibration:

The initial calibration and continuing calibration verification were all acceptable.

However, the retention time, initial and continuing calibration results were used in the calculation from two detectors: naphthalene, acenaphthylene, 1-methylnaphthalene, 2-methylnaphthalene, fluorene, phenanthrene, and anthracene were taken from ultraviolet detector, and acenaphthene, fluoranthene, pyrene, benzo (a) anthracene, chrysene, benzo (b) fluoranthene, benzo (k) fluoranthene, benzo (a) pyrene, dibenzo (a, h) anthracene, benzo (g, h, i) perylene, and indeno (1, 2, 3-cd) pyrene were taken from fluorescence detector.

BETX (U.S. EPA Method 8021B)
SDG # MMA82

1. Samples:

<u>Client Sample</u> <u>Description:</u>	<u>Lab Sample</u> <u>Number</u>	<u>Matrix</u>	<u>Date</u> <u>Collected</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>
MA3-FB-062806-19	4804567	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TB-062806-2	4804568	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG1-2-062806-17	4804570	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG1-3-062806-18	4804571	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG2-1-062806-13	4804572	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG2-2-062806-14	4804573	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG2-3-062806-15	4804574	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG3-1-062806-10	4804575	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG3-2-062806-11	4804576	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG3-3-062806-12	4804577	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG4-1-062806-7	4804578	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG4-2-062806-8	4804579	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG4-2-062806-8-MS	4804580	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG4-2-062806-8-MSD	4804581	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG4-3-062806-9	4804582	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG4-3-062806-9-DP	4804583	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG5-1-062806-1	4804584	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG5-2-062806-2	4804585	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG5-3-062806-3	4804586	Grab G-water	06/28/06	07/06/06	07/06/06
MA3-TG6-1-062806-4	4804587	Grab G-water	06/28/06	07/05/06	07/05/06
MA3-TG6-2-062806-5	4804588	Grab G-water	06/28/06	07/05/06	07/05/06
MA3-TG6-3-062806-6	4804589	Grab G-water	06/28/06	07/05/06	07/05/06

2. Holding Times:

All samples were analyzed within the required holding times.

3. Method Blank:

Two method blanks BLK1532 and BLK1533 were associated with this SDG. The method blank BLK1532 batch 06186A15A was analyzed on 07/05/06 with samples (4804587 thru 4804589) results were free of contamination.

The method blank BLK1533 batch 06187A15A was analyzed on 07/06/06 with samples 4804567 thru 4804579, 4804582 thru 4804586 results were free of contamination.

4. Matrix Spike:

The laboratory performed matrix spike on sample 4803999 from different SDG and associated with batch 06186A15A. The MS recoveries were within the quality control limits.

The laboratory performed matrix spike on sample 4804579 associated with batch 06187A15. The MS/MSD recoveries were within the quality control limits. Also, the RPD% values were acceptable.

5. Laboratory Control Sample:

The laboratory control sample/ laboratory control sample duplicate associated with batch 06180A15 recoveries were within the acceptance quality control limits. Also, the RPD% values were acceptable.

The laboratory control sample/ laboratory control sample duplicate associated with batch 06187A15 recoveries were within the acceptance quality control limits. Also, the RPD% values were acceptable.

6. Surrogate:

The method blanks and the investigated samples had surrogate recoveries within the required quality control limits.

7. Initial and Continuing Calibration:

All the initial calibration and continuing calibration results were within the quality control limits.

WET CHEMISTRY ANALYSIS

Kjeldahl Nitrogen Analysis (TKN):

SDG # MMA83

1. Samples:

<u>Client Code</u>	<u>Lab Sample Number</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Digested</u>	<u>Date Analyzed</u>
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG1-3-062806-18	4804571	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG2-1-062806-13	4804572	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG2-2-062806-14	4804573	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG2-3-062806-15	4804574	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG3-1-062806-10	4804575	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG3-2-062806-11	4804576	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG3-3-062806-12	4804577	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG4-1-062806-7	4804578	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG4-2-062806-8	4804579	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG4-3-062806-9	4804582	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG5-1-062806-1	4804584	Grab G-water	06/28/06	07/06/06	07/07/06
MA3-TG5-2-062806-2	4804585	Grab G-water	06/28/06	07/12/06	07/12/06
MA3-TG5-3-062806-3	4804586	Grab G-water	06/28/06	07/12/06	07/12/06
MA3-TG6-1-062806-4	4804587	Grab G-water	06/28/06	07/14/06	07/17/06
MA3-TG6-2-062806-5	4804588	Grab G-water	06/28/06	07/12/06	07/12/06
MA3-TG6-3-062806-6	4804589	Grab G-water	06/28/06	07/12/06	07/12/06

2. Method Blank:

The three method blanks associated with this SDG analyzed on 07/07/06, 07/12/06 and 07/17/06 results were free of contamination.

3. Matrix Spike Recovery:

Five matrix spikes were associated with this SDG. They were performed on the following samples: 4804569, 4804584, 4804589 and the other two from different SDG P803197 and P799801. All matrix spikes recoveries were within the laboratory control limits, except for samples 4804584MS 4804589MS and P799801MS recoveries were outside the lower control limits (90-110%). Therefore, qualify the associated samples 4804579 and 4804582 as (J-/UJ)

4. Duplicate Recovery:

Five duplicates were associated with this SDG results were acceptable.

5. Laboratory Control Sample Recovery:

The three laboratories control samples recoveries were within the acceptance control limits.

6. Initial and Continuing Calibration Verification:

The initial and continuing calibrations recoveries were all within the control limits.

7. Initial and Continuing Calibration Blanks:

The initial and continuing calibration blanks results were free of contamination.

Nitrite Nitrogen Analysis:

SDG # MMA83

1. Samples:

<u>Client Code</u>	<u>Lab Sample Number</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	06/29/06
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	06/29/06
MA3-TG1-3-062806-18	4804571	Grab G-water	06/28/06	06/29/06
MA3-TG2-1-062806-13	4804572	Grab G-water	06/28/06	06/29/06
MA3-TG2-2-062806-14	4804573	Grab G-water	06/28/06	06/29/06
MA3-TG2-3-062806-15	4804574	Grab G-water	06/28/06	06/29/06
MA3-TG3-1-062806-10	4804575	Grab G-water	06/28/06	06/29/06
MA3-TG3-2-062806-11	4804576	Grab G-water	06/28/06	06/29/06
MA3-TG3-3-062806-12	4804577	Grab G-water	06/28/06	06/29/06
MA3-TG4-1-062806-7	4804578	Grab G-water	06/28/06	06/29/06
MA3-TG4-2-062806-8	4804579	Grab G-water	06/28/06	06/29/06
MA3-TG4-3-062806-9	4804582	Grab G-water	06/28/06	06/29/06
MA3-TG5-1-062806-1	4804584	Grab G-water	06/28/06	06/29/06
MA3-TG5-2-062806-2	4804585	Grab G-water	06/28/06	06/29/06
MA3-TG5-3-062806-3	4804586	Grab G-water	06/28/06	06/29/06
MA3-TG6-1-062806-4	4804587	Grab G-water	06/28/06	06/29/06
MA3-TG6-2-062806-5	4804588	Grab G-water	06/28/06	06/29/06
MA3-TG6-3-062806-6	4804589	Grab G-water	06/28/06	06/29/06

2. Holding Times:

All samples were analyzed within the required holding times.

3. Method Blank:

Two method blanks were associated with this SDG and analyzed on 06/29/06 results were free of contamination.

4. Matrix Spike Recovery:

Three matrix spikes were associated with this SDG. They were performed on the following samples: P804512, 4804579 and 4804588. All matrix spikes recoveries were within the control limits.

5. Laboratory Control Sample Recovery:

The two laboratories control samples recoveries were within the acceptance control limits.

6. Duplicate Recovery:

Three duplicates were associated with this SDG results were acceptable.

7. Initial and Continuing Calibration Verification:

The initial and continuing calibrations recoveries were all within the control limits.

8. Initial and Continuing Calibration Blanks:

The initial and continuing calibration blanks results were free of contamination.

Nitrate Nitrogen Analysis:
SDG # MMA83

1. Samples:

<u>Client Code</u>	<u>Lab Sample Number</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	07/05/06
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	07/05/06
MA3-TG1-3-062806-18	4804571	Grab G-water	06/28/06	07/05/06
MA3-TG2-1-062806-13	4804572	Grab G-water	06/28/06	07/05/06
MA3-TG2-2-062806-14	4804573	Grab G-water	06/28/06	07/05/06
MA3-TG2-3-062806-15	4804574	Grab G-water	06/28/06	07/05/06
MA3-TG3-1-062806-10	4804575	Grab G-water	06/28/06	07/05/06
MA3-TG3-2-062806-11	4804576	Grab G-water	06/28/06	07/05/06
MA3-TG3-3-062806-12	4804577	Grab G-water	06/28/06	07/05/06
MA3-TG4-1-062806-7	4804578	Grab G-water	06/28/06	07/05/06
MA3-TG4-2-062806-8	4804579	Grab G-water	06/28/06	07/05/06
MA3-TG4-3-062806-9	4804582	Grab G-water	06/28/06	07/05/06
MA3-TG5-1-062806-1	4804584	Grab G-water	06/28/06	07/07/06
MA3-TG5-2-062806-2	4804585	Grab G-water	06/28/06	07/05/06
MA3-TG5-3-062806-3	4804586	Grab G-water	06/28/06	07/05/06
MA3-TG6-1-062806-4	4804587	Grab G-water	06/28/06	07/07/06
MA3-TG6-2-062806-5	4804588	Grab G-water	06/28/06	07/05/06
MA3-TG6-3-062806-6	4804589	Grab G-water	06/28/06	07/07/06

2. Holding Times:

All samples were analyzed within the required holding times.

3. Method Blank:

Two method blanks were associated with this SDG and analyzed on 07/05 and 07/07/06/06 results were free of contamination.

4. Matrix Spike Recovery:

Four matrix spikes were associated with this SDG. They were performed on the following samples: 4804570, 4804588, 4804577 and 4804578. All matrix spikes recoveries were within the control limits, except for samples 4804570MS and 4804577MS recoveries were outside the lower control limits (90-110%). Therefore, qualify the associated results as (J-/UJ) for samples 4804571 thru 4804576, 4804584, 4804596, and 4804577 thru 4804579, 4804582, 4804587 and 4804588.

5. Duplicate Recovery:

Four duplicates were associated with this SDG results were acceptable.

6. Laboratory Control Sample:

The two laboratories control samples recoveries were within the acceptance control limits.

7. Initial and Continuing Calibration Verification:

The initial and continuing calibrations recoveries were all within the control limits.

8. Initial and Continuing Calibration Blanks:

The initial and continuing calibration blanks results were free of contamination.

Total Phosphorus as (PO4):

SDG # MMA83

1. Samples:

<u>Client Code</u>	<u>Lab Sample Number</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG1-3-062806-18	4804571	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG2-1-062806-13	4804572	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG2-2-062806-14	4804573	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG2-3-062806-15	4804574	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG3-1-062806-10	4804575	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG3-2-062806-11	4804576	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG3-3-062806-12	4804577	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG4-1-062806-7	4804578	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG4-2-062806-8	4804579	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG4-3-062806-9	4804582	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG5-1-062806-1	4804584	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG5-2-062806-2	4804585	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG5-3-062806-3	4804586	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG6-1-062806-4	4804587	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG6-2-062806-5	4804588	Grab G-water	06/28/06	06/30/06	07/03/06
MA3-TG6-3-062806-6	4804589	Grab G-water	06/28/06	06/30/06	07/03/06

2. Holding Times:

All samples were prepared and analyzed within the required holding times.

3. Method Blank:

The method blank associated with this SDG analyzed on 07/03/06 and results were free of contamination.

4. Matrix Spike Recovery:

Two matrix spikes were associated with this SDG. The matrix spike 4804569MS recoveries within the acceptance control limits. However, the 4804579MS recoveries were outside the upper control limits. Therefore, qualify the associated detected results as estimated (J) for samples 4804577, 4804578, 4804582, 4804584 thru 4804589.

5. Duplicate Recovery:

Two duplicates were associated with this SDG results were acceptable.

6. Laboratory Control Sample Recovery:

The laboratory control sample recovery was within the acceptance control limits.

7. Initial and Continuing Calibration Verification:

The initial and continuing calibrations recoveries were all within the control limits.

8. Initial and Continuing Calibration Blanks:

The initial and continuing calibration blanks results were free of contamination.

Total Organic Carbon Analysis (TOC):

SDG # MMA83

1. Samples:

<u>Client Code</u>	<u>Lab Sample Number</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	07/03/06
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	07/03/06
MA3-TG1-3-062806-18	4804571	Grab G-water	06/28/06	07/03/06
MA3-TG2-1-062806-13	4804572	Grab G-water	06/28/06	07/03/06
MA3-TG2-2-062806-14	4804573	Grab G-water	06/28/06	07/13/06
MA3-TG2-3-062806-15	4804574	Grab G-water	06/28/06	07/13/06
MA3-TG3-1-062806-10	4804575	Grab G-water	06/28/06	07/13/06
MA3-TG3-2-062806-11	4804576	Grab G-water	06/28/06	07/13/06
MA3-TG3-3-062806-12	4804577	Grab G-water	06/28/06	07/13/06
MA3-TG4-1-062806-7	4804578	Grab G-water	06/28/06	07/13/06
MA3-TG4-2-062806-8	4804579	Grab G-water	06/28/06	07/13/06
MA3-TG4-3-062806-9	4804582	Grab G-water	06/28/06	07/05/06
MA3-TG5-1-062806-1	4804584	Grab G-water	06/28/06	07/05/06
MA3-TG5-2-062806-2	4804585	Grab G-water	06/28/06	07/05/06
MA3-TG5-3-062806-3	4804586	Grab G-water	06/28/06	07/05/06
MA3-TG6-1-062806-4	4804587	Grab G-water	06/28/06	07/05/06
MA3-TG6-2-062806-5	4804588	Grab G-water	06/28/06	07/05/06
MA3-TG6-3-062806-6	4804589	Grab G-water	06/28/06	07/05/06

2. Method Blank:

Three method blanks were associated with this SDG and analyzed on 07/03/06; 07/13/06 and 07/17/06 results were free of contamination.

3. Matrix Spike/Matrix Spike Duplicate :

Four matrix spikes were associated with this SDG. The four matrix spikes 4804588MS, 4804579, P803823 and P804579 recoveries within the acceptance control limits.

4. Duplicate Recovery:

Four duplicates were associated with this SDG results were acceptable.

5. Laboratory Control Sample Recovery:

The three laboratories control samples recoveries were within the control limits.

6. Initial and Continuing Calibration Verification:

The initial and continuing calibrations recoveries were all within the control limits.

7. Initial and Continuing Calibration Blanks:

The initial and continuing calibration blanks results were free of contamination.

Ammonia Nitrogen Analysis:

SDG # MMA83

1. Samples:

<u>Client Code</u>	<u>Lab Sample Number</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	07/10/06
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	07/10/06
MA3-TG1-3-062806-18	4804571	Grab G-water	06/28/06	07/10/06
MA3-TG2-1-062806-13	4804572	Grab G-water	06/28/06	07/10/06
MA3-TG2-2-062806-14	4804573	Grab G-water	06/28/06	07/10/06
MA3-TG2-3-062806-15	4804574	Grab G-water	06/28/06	07/10/06
MA3-TG3-1-062806-10	4804575	Grab G-water	06/28/06	07/10/06
MA3-TG3-2-062806-11	4804576	Grab G-water	06/28/06	07/10/06
MA3-TG3-3-062806-12	4804577	Grab G-water	06/28/06	07/10/06
MA3-TG4-1-062806-7	4804578	Grab G-water	06/28/06	07/10/06
MA3-TG4-2-062806-8	4804579	Grab G-water	06/28/06	07/10/06
MA3-TG4-3-062806-9	4804582	Grab G-water	06/28/06	07/10/06
MA3-TG5-1-062806-1	4804584	Grab G-water	06/28/06	07/10/06
MA3-TG5-2-062806-2	4804585	Grab G-water	06/28/06	07/10/06
MA3-TG5-3-062806-3	4804586	Grab G-water	06/28/06	07/10/06
MA3-TG6-1-062806-4	4804587	Grab G-water	06/28/06	07/10/06
MA3-TG6-2-062806-5	4804588	Grab G-water	06/28/06	07/10/06
MA3-TG6-3-062806-6	4804589	Grab G-water	06/28/06	07/11/06

2. Holding Times:

All samples were analyzed within the required holding times.

3. Method Blank:

The two method blanks associated with this SDG results were free of contamination.

4. Duplicate Recovery:

The two duplicates results were acceptable.

5. Laboratory Control Sample Recovery:

The two laboratories control samples/laboratories control samples duplicates recoveries were within the control limits. Also, the RPD% values were acceptable.

Ortho-Phosphate as P Analysis:

SDG # MMA83

1. Samples:

<u>Client Code</u>	<u>Lab Sample Number</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	06/30/06
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	06/30/06
MA3-TG1-3-062806-18	4804571	Grab G-water	06/28/06	06/30/06
MA3-TG2-1-062806-13	4804572	Grab G-water	06/28/06	06/30/06
MA3-TG2-2-062806-14	4804573	Grab G-water	06/28/06	06/30/06
MA3-TG2-3-062806-15	4804574	Grab G-water	06/28/06	06/30/06
MA3-TG3-1-062806-10	4804575	Grab G-water	06/28/06	06/30/06
MA3-TG3-2-062806-11	4804576	Grab G-water	06/28/06	06/30/06
MA3-TG3-3-062806-12	4804577	Grab G-water	06/28/06	06/30/06
MA3-TG4-1-062806-7	4804578	Grab G-water	06/28/06	06/30/06
MA3-TG4-2-062806-8	4804579	Grab G-water	06/28/06	06/30/06
MA3-TG4-3-062806-9	4804582	Grab G-water	06/28/06	06/30/06
MA3-TG5-1-062806-1	4804584	Grab G-water	06/28/06	06/30/06
MA3-TG5-2-062806-2	4804585	Grab G-water	06/28/06	06/30/06
MA3-TG5-3-062806-3	4804586	Grab G-water	06/28/06	06/30/06
MA3-TG6-1-062806-4	4804587	Grab G-water	06/28/06	06/30/06
MA3-TG6-2-062806-5	4804588	Grab G-water	06/28/06	06/30/06
MA3-TG6-3-062806-6	4804589	Grab G-water	06/28/06	06/30/06

2. Holding Times:

All samples were analyzed within the required holding times.

3. Method Blank:

The two method blanks associated with this SDG results were free of contamination.

4. Matrix Spike Recovery:

Two matrix spikes were associated with this SDG and performed on samples 4804584 and 4804589. Both MS/MSD recoveries were within the acceptance control limits. Also, the (RPD %) values were acceptable.

5. Duplicate Recovery:

The two duplicates results were acceptable.

6. Laboratory Control Sample Recovery:

The two laboratories control samples recoveries were within the acceptance control limits.

Biochemical Oxygen Demand Analysis (BOD):

SDG # MMA83

1. Samples:

<u>Client Code</u>	<u>Lab Sample Number</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	06/29/06
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	06/29/06
MA3-TG1-3-062806-18	4804571	Grab G-water	06/28/06	06/29/06
MA3-TG2-1-062806-13	4804572	Grab G-water	06/28/06	06/29/06
MA3-TG2-2-062806-14	4804573	Grab G-water	06/28/06	06/29/06
MA3-TG2-3-062806-15	4804574	Grab G-water	06/28/06	06/29/06
MA3-TG3-1-062806-10	4804575	Grab G-water	06/28/06	06/29/06
MA3-TG3-2-062806-11	4804576	Grab G-water	06/28/06	06/29/06
MA3-TG3-3-062806-12	4804577	Grab G-water	06/28/06	06/29/06
MA3-TG4-1-062806-7	4804578	Grab G-water	06/28/06	06/29/06
MA3-TG4-2-062806-8	4804579	Grab G-water	06/28/06	06/29/06
MA3-TG4-3-062806-9	4804582	Grab G-water	06/28/06	06/29/06
MA3-TG5-1-062806-1	4804584	Grab G-water	06/28/06	06/29/06
MA3-TG5-2-062806-2	4804585	Grab G-water	06/28/06	06/29/06
MA3-TG5-3-062806-3	4804586	Grab G-water	06/28/06	06/29/06
MA3-TG6-1-062806-4	4804587	Grab G-water	06/28/06	06/29/06
MA3-TG6-2-062806-5	4804588	Grab G-water	06/28/06	06/29/06
MA3-TG6-3-062806-6	4804589	Grab G-water	06/28/06	06/29/06

2. Holding Times:

All samples were analyzed within the required holding times.

3. Matrix Spike Recovery:

A matrix spike was performed on sample 4804584. The MS/MSD recoveries were within the acceptance control limits. Also, the (RPD %) values were acceptable.

4. Duplicate Recovery:

The duplicate result was acceptable.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate Recovery:

The laboratory control sample/laboratory control sample duplicate recoveries were within the acceptance control limits. Also, the RPD% value was acceptable.

Chemical Oxygen Demand Analysis (COD):
SDG # MMA83

1. Samples:

<u>Client Code</u>	<u>Lab Sample Number</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	07/02/06
MA3-TG1-1-062806-16	4804569	Grab G-water	06/28/06	07/02/06
MA3-TG1-3-062806-18	4804571	Grab G-water	06/28/06	07/02/06
MA3-TG2-1-062806-13	4804572	Grab G-water	06/28/06	07/02/06
MA3-TG2-2-062806-14	4804573	Grab G-water	06/28/06	07/02/06
MA3-TG2-3-062806-15	4804574	Grab G-water	06/28/06	07/02/06
MA3-TG3-1-062806-10	4804575	Grab G-water	06/28/06	07/02/06
MA3-TG3-2-062806-11	4804576	Grab G-water	06/28/06	07/02/06
MA3-TG3-3-062806-12	4804577	Grab G-water	06/28/06	07/02/06
MA3-TG4-1-062806-7	4804578	Grab G-water	06/28/06	07/02/06
MA3-TG4-2-062806-8	4804579	Grab G-water	06/28/06	07/02/06
MA3-TG4-3-062806-9	4804582	Grab G-water	06/28/06	07/08/06
MA3-TG5-1-062806-1	4804584	Grab G-water	06/28/06	07/08/06
MA3-TG5-2-062806-2	4804585	Grab G-water	06/28/06	07/14/06
MA3-TG5-3-062806-3	4804586	Grab G-water	06/28/06	07/08/06
MA3-TG6-1-062806-4	4804587	Grab G-water	06/28/06	07/08/06
MA3-TG6-2-062806-5	4804588	Grab G-water	06/28/06	07/08/06
MA3-TG6-3-062806-6	4804589	Grab G-water	06/28/06	07/08/06

2. Holding Times:

All samples were analyzed within the required holding times.

3. Matrix Spike Recovery:

Three matrix spikes were associated with this SDG and performed on samples P809294, P801936 and 4804579. Both MS/MSD recoveries were within the acceptance control limits. Also, the (RPD %) values were acceptable.

4. Duplicate Recovery:

The three duplicates results were acceptable.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate Recovery:

The three laboratories control samples recoveries were within the acceptance control limits.



ANALYTICAL RESULTS

Prepared for:

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Prepared by:

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SAMPLE GROUP

The sample group for this submittal is 995493. Samples arrived at the laboratory on Thursday, June 29, 2006. The PO# for this group is ZAKW1KEOK0A90089.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MA3-FB-062806-19 Groundwater	4804567
MA3-TB-062806-2 Groundwater	4804568
MA3-TG1-1-062806-16 Groundwater	4804569
MA3-TG1-2-062806-17 Groundwater	4804570
MA3-TG1-3-062806-18 Groundwater	4804571
MA3-TG2-1-062806-13 Groundwater	4804572
MA3-TG2-2-062806-14 Groundwater	4804573
MA3-TG2-3-062806-15 Groundwater	4804574
MA3-TG3-1-062806-10 Groundwater	4804575
MA3-TG3-2-062806-11 Groundwater	4804576
MA3-TG3-3-062806-12 Groundwater	4804577
MA3-TG4-1-062806-7 Groundwater	4804578
MA3-TG4-2-062806-8 Groundwater	4804579
MA3-TG4-2-062806-8-MS Groundwater	4804580
MA3-TG4-2-062806-8-MSD Groundwater	4804581
MA3-TG4-3-062806-9 Groundwater	4804582
MA3-TG4-3-062806-9-DP Groundwater	4804583
MA3-TG5-1-062806-1 Groundwater	4804584
MA3-TG5-2-062806-2 Groundwater	4804585
MA3-TG5-3-062806-3 Groundwater	4804586
MA3-TG6-1-062806-4 Groundwater	4804587
MA3-TG6-2-062806-5 Groundwater	4804588
MA3-TG6-3-062806-6 Groundwater	4804589

METHODOLOGY



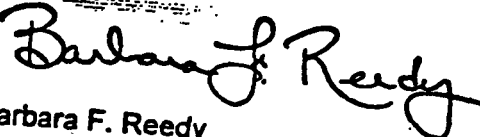
The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Weston Solutions, Inc.
ELECTRONIC Tronox LLC
COPY TO
1 COPY TO Data Package Group

Attn: Tom Graan
Attn: Roy Widmann

Questions? Contact your Client Services Representative
Gwen A Birchall at (717) 656-2300

Respectfully Submitted,


Barbara F. Reedy
Senior Specialist



Lancaster Laboratories Sample No. WW 4804567

MA3-FB-062806-19 Groundwater
 10,14-062806 02687.007.007.0001

Moss American
 Collected: 06/28/2006 17:30

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

MFB28 SDG#: KMA83-01FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method. Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.96	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.53	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.085	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.043	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.043	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.043	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.043	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.085	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.085	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4804567

MA3-FB-062806-19 Groundwater
10,14-062806 02687.007.007.0001

Moss American
Collected: 06/28/2006 17:30

Account Number: 11947

Submitted: 06/29/2006 10:15
Reported: 08/03/2006 at 15:22
Discard: 10/03/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

MFB28	SDG#: KMA83-01FB					
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 12:13	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 00:52	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 12:13	Steven A Skiles	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1



Lancaster Laboratories Sample No. WW 4804568

MA3-TB-062806-2 Groundwater
 14-062806 02687.007.007.0001

Moss American
 Collected: 06/28/2006 18:35

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

MTB-2 SDG#: KMA83-02TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 12:42	Steven A Skiles	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 12:42	Steven A Skiles	1



Lancaster Laboratories Sample No. WW. 4804569

MA3-TG1-1-062806-16 Groundwater
 8,10,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 16:45

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M1116 SDG#: KMA83-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00217	Kjeldahl Nitrogen	7727-37-9	0.63 J	0.50		mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015		mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040		mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.85	0.20		mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.	0.010		mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.	4.5		mg/l	1
00273	Total Organic Carbon	n.a.	7.8	1.0		mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25		mg/l	1
01553	Chemical Oxygen Demand	n.a.	33.3	2.6		mg/l	1
08213	BTEX (8021)						
00776	Benzene	71-43-2	N.D.	1.0		ug/l	5
00777	Toluene	108-88-3	N.D.	1.0		ug/l	5
00778	Ethylbenzene	100-41-4	8.4	1.0		ug/l	5
00779	Total Xylenes	1330-20-7	13. J	3.0		ug/l	5
	Due to the nature of the sample matrix, normal reporting limits were not attained.						
00774	PAH's in Water by HPLC						
00775	Naphthalene	91-20-3	1,100.	28.		ug/l	20
00782	Acenaphthylene	208-96-8	48.	1.5		ug/l	1
00783	Acenaphthene	83-32-9	N.D.	250.		ug/l	1
00784	Fluorene	86-73-7	160.	11.		ug/l	20
00785	Phenanthrene	85-01-8	260.	1.7		ug/l	20
00789	Anthracene	120-12-7	25.	0.86		ug/l	20
00807	Fluoranthene	206-44-0	94.	0.86		ug/l	20
00811	Pyrene	129-00-0	73.	3.9		ug/l	20
00812	Benzo(a)anthracene	56-55-3	15.	0.43		ug/l	20
00818	Benzo(b)fluoranthene	205-99-2	5.6	0.86		ug/l	20
00823	Benzo(a)pyrene	50-32-8	5.6	0.43		ug/l	20
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.043		ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	3.2	0.086		ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	2.3	0.11		ug/l	1
07409	Chrysene	218-01-9	12.	0.086		ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	3.1	0.022		ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.



Lancaster Laboratories Sample No. WW 4804569

MA3-TG1-1-062806-16 Groundwater
 8,10,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 16:45

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M1116 SDG#: KMA83-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for acenaphthene. The reporting limit for this compound was raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 11:52	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 20:48	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	07/05/2006 11:25	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	1	07/03/2006 21:12	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:26	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/02/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 13:12	Steven A Skiles	5
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 01:31	Mark A Clark	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/11/2006 10:29	Mark A Clark	20
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 13:12	Steven A Skiles	5
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50	Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW. 4804570

MA3-TG1-2-062806-17 Groundwater
 8,10,11,13,14-062806 02687.007.0001
 Moss American
 Collected: 06/28/2006 16:55

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M1217 SDG#: KMA83-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
00217	Kjeldahl Nitrogen	7727-37-9	1.5	Detection Limit	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.066 J	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	1.3	0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.	0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.	5.3	mg/l	1
00273	Total Organic Carbon	n.a.	9.7	1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	32.9	2.6	mg/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	0.2 J	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	55.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.6	ug/l	1
00783	Acenaphthene	83-32-9	39.	1.0	ug/l	1
00784	Fluorene	86-73-7	19.	0.55	ug/l	1
00785	Phenanthrene	85-01-8	8.7	0.089	ug/l	1
00789	Anthracene	120-12-7	1.3	0.044	ug/l	1
00807	Fluoranthene	206-44-0	2.0	0.044	ug/l	1
00811	Pyrene	129-00-0	1.3	0.20	ug/l	1
00812	Benzo(a)anthracene	56-55-3	0.061 J	0.022	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.044	ug/l	1
00823	Benzo(a)pyrene	50-32-8	0.033 J	0.022	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.044	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.089	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.089	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804570

MA3-TG1-2-062806-17 Groundwater
 8,10,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 16:55

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M1217 SDG#: KMA83-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 11:56	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 20:49	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	07/05/2006 11:09	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	1	07/03/2006 21:23	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:29	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/02/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 13:42	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 02:10	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 13:42	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50	Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804571

MA3-TG1-3-062806-18 Groundwater
 10,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 17:15

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M1318 SDG#: KMA83-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
00217	Kjeldahl Nitrogen	7727-37-9	1.6	Detection Limit	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	1.7	0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.	0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.	3.2	mg/l	1
00273	Total Organic Carbon	n.a.	10.1	1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	30.2	2.6	mg/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.3	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.4	ug/l	1
00783	Acenaphthene	83-32-9	2.5 J	0.93	ug/l	1
00784	Fluorene	86-73-7	0.69 J	0.52	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.082	ug/l	1
00789	Anthracene	120-12-7	0.063 J	0.041	ug/l	1
00807	Fluoranthene	206-44-0	0.24	0.041	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo (a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo (b) fluoranthene	205-99-2	N.D.	0.041	ug/l	1
00823	Benzo (a) pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz (a, h) anthracene	53-70-3	N.D.	0.041	ug/l	1
00898	Indeno (1, 2, 3- cd) pyrene	193-39-5	N.D.	0.082	ug/l	1
00907	Benzo (g, h, i) perylene	191-24-2	N.D.	0.10	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.082	ug/l	1
07410	Benzo (k) fluoranthene	207-08-9	N.D.	0.021	ug/l	1

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804571

MA3-TG1-3-062806-18 Groundwater
 10,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 17:15

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M1318 SDG#: KMA83-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 11:57	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 20:51	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	07/05/2006 11:10	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	1	07/03/2006 21:34	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:30	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/02/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 14:11	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 02:49	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 14:11	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50	Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804572

MA3-TG2-1-062806-13 Groundwater
 8,9,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 15:40

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M2113 SDG#: KMA83-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
00217	Kjeldahl Nitrogen	7727-37-9	N.D.	0.50	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.27 J	0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.	0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.	1.5	mg/l	1
00273	Total Organic Carbon	n.a.	2.2	1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	9.5	2.6	mg/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.5	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.6	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	1.0	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.56	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.090	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.045	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.045	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.20	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.023	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.045	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.023	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.045	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.090	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.090	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.023	ug/l	1

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804572

MA3-TG2-1-062806-13 Groundwater
 8,9,11,13,14-062806 02687.007.007.0001

Moss American

Collected:06/28/2006 15:40

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M2113 SDG#: KMA83-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 11:58	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 20:52	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	07/05/2006 11:11	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	1	07/03/2006 21:45	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:31	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/02/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 14:41	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 03:27	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 14:41	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50	Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804573

MA3-TG2-2-062806-14 Groundwater
 8,9,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 15:55

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M2214 SDG#: KMA83-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00217	Kjeldahl Nitrogen	7727-37-9	0.53 J		0.50	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.058 J		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.48 J		0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.		0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.		1.7	mg/l	1
00273	Total Organic Carbon	n.a.	2.5		1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.		0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	8.7		2.6	mg/l	1
08213	BTEX (8021)						
00776	Benzene	71-43-2	N.D.		0.2	ug/l	1
00777	Toluene	108-88-3	N.D.		0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.		0.6	ug/l	1
00774	PAH's in Water by HPLC						
00775	Naphthalene	91-20-3	N.D.		1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.		1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.		0.99	ug/l	1
00784	Fluorene	86-73-7	N.D.		0.55	ug/l	1
00785	Phenanthrene	85-01-8	N.D.		0.088	ug/l	1
00789	Anthracene	120-12-7	N.D.		0.044	ug/l	1
00807	Fluoranthene	206-44-0	0.046 J		0.044	ug/l	1
00811	Pyrene	129-00-0	N.D.		0.20	ug/l	1
00812	Benzo (a) anthracene	56-55-3	N.D.		0.022	ug/l	1
00818	Benzo (b) fluoranthene	205-99-2	N.D.		0.044	ug/l	1
00823	Benzo (a) pyrene	50-32-8	N.D.		0.022	ug/l	1
00895	Dibenz (a, h) anthracene	53-70-3	N.D.		0.044	ug/l	1
00898	Indeno (1, 2, 3-cd) pyrene	193-39-5	N.D.		0.088	ug/l	1
00907	Benzo (g, h, i) perylene	191-24-2	N.D.		0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.		0.088	ug/l	1
07410	Benzo (k) fluoranthene	207-08-9	N.D.		0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804573

MA3-TG2-2-062806-14 Groundwater
 8,9,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 15:55

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M2214 SDG#: KMA83-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 11:59	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 20:53	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	07/05/2006 11:13	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	2	07/13/2006 10:06	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:33	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/02/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 15:10	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 04:45	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 15:10	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50	Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804574

MA3-TG2-3-062806-15 Groundwater
 8,9,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected: 06/28/2006 16:05

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M2315 SDG#: KMA83-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
00217	Kjeldahl Nitrogen	7727-37-9	1.5	0.50	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	1.6	0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.	0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.	4.7	mg/l	1
00273	Total Organic Carbon	n.a.	10.9	1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	31.7	2.6	mg/l	1
08213 BTEX (8021)						
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774 PAH's in Water by HPLC						
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.6	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	1.0	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.56	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.089	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.045	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.045	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.20	ug/l	1
00812	Benzo (a) anthracene	56-55-3	N.D.	0.022	ug/l	1
00818	Benzo (b) fluoranthene	205-99-2	N.D.	0.045	ug/l	1
00823	Benzo (a) pyrene	50-32-8	N.D.	0.022	ug/l	1
00895	Dibenz (a, h) anthracene	53-70-3	N.D.	0.045	ug/l	1
00898	Indeno (1,2,3-cd) pyrene	193-39-5	N.D.	0.089	ug/l	1
00907	Benzo (g, h, i) perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.089	ug/l	1
07410	Benzo (k) fluoranthene	207-08-9	N.D.	0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804574

MA3-TG2-3-062806-15 Groundwater
 8,9,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 16:05

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M2315 SDG#: KMA83-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 12:00	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 20:54	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	07/05/2006 11:14	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	2	07/13/2006 10:14	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:34	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/02/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 15:40	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 05:24	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 15:40	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50	Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804575

MA3-TG3-1-062806-10 Groundwater
 4,9,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 14:00

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M3110 SDG#: KMA83-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00217	Kjeldahl Nitrogen	7727-37-9	0.72 J		0.50	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.		0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.		0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.		1.8	mg/l	1
00273	Total Organic Carbon	n.a.	9.4		1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.		0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	26.2		2.6	mg/l	1
08213	BTEX (8021)						
00776	Benzene	71-43-2	N.D.		0.2	ug/l	1
00777	Toluene	108-88-3	N.D.		0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.		0.6	ug/l	1
00774	PAH's in Water by HPLC						
00775	Naphthalene	91-20-3	N.D.		1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.		1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.		0.95	ug/l	1
00784	Fluorene	86-73-7	N.D.		0.53	ug/l	1
00785	Phenanthrene	85-01-8	N.D.		0.084	ug/l	1
00789	Anthracene	120-12-7	N.D.		0.042	ug/l	1
00807	Fluoranthene	206-44-0	N.D.		0.042	ug/l	1
00811	Pyrene	129-00-0	N.D.		0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.		0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.		0.042	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.		0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.		0.042	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.084	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.		0.11	ug/l	1
07409	Chrysenes	218-01-9	N.D.		0.084	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.		0.021	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804575

MA3-TG3-1-062806-10 Groundwater
 4,9,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 14:00

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M3110 SDG#: KMA83-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 12:00	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 21:03	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	07/05/2006 11:15	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	2	07/13/2006 10:22	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:35	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/02/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 16:10	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 06:03	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 16:10	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50	Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW. 4804576

MA3-TG3-2-062806-11 Groundwater
 4,9,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 14:20

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:22
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M3211 SDG#: KMA83-10

CAT No.	Analysis Name	CAS Number	As Received		As Received		Dilution Factor
			Result		Method	Units	
00217	Kjeldahl Nitrogen	7727-37-9	0.94	J	0.50	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.81		0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.		0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.		2.4	mg/l	1
00273	Total Organic Carbon	n.a.	8.6		1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.		0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	24.2		2.6	mg/l	1
08213	BTEX (8021)						
00776	Benzene	71-43-2	N.D.		0.2	ug/l	1
00777	Toluene	108-88-3	N.D.		0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.		0.6	ug/l	1
00774	PAH's in Water by HPLC						
00775	Naphthalene	91-20-3	N.D.		1.6	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.		1.8	ug/l	1
00783	Acenaphthene	83-32-9	N.D.		1.1	ug/l	1
00784	Fluorene	86-73-7	N.D.		0.63	ug/l	1
00785	Phenanthrene	85-01-8	N.D.		0.10	ug/l	1
00789	Anthracene	120-12-7	N.D.		0.050	ug/l	1
00807	Fluoranthene	206-44-0	N.D.		0.050	ug/l	1
00811	Pyrene	129-00-0	N.D.		0.23	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.		0.025	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.		0.050	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.		0.025	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.		0.050	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.10	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.		0.13	ug/l	1
07409	Chrysene	218-01-9	N.D.		0.10	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.		0.025	ug/l	1

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804576

MA3-TG3-2-062806-11 Groundwater
 4,9,13,14-062806 02687.007.007.0001

Moss American

Collected:06/28/2006 14:20

Account Number: 11947

Submitted: 06/29/2006 10:15

Reported: 08/03/2006 at 15:22

Discard: 10/03/2006

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

M3211 SDG#: KMA83-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 12:01	Nicole M. Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 21:04	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	07/05/2006 11:16	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	2	07/13/2006 10:30	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:36	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/02/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 16:39	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 06:42	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 16:39	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50	Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW. 4804577

MA3-TG3-3-062806-12 Groundwater
 4,6,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 14:40

Account Number: 11947.

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M3312 SDG#: KMA83-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
				Detection Limit		
00217	Kjeldahl Nitrogen	7727-37-9	1.6	0.50	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	2.0	0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.	0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	12.7	0.80	mg/l	1
00273	Total Organic Carbon	n.a.	9.9	1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	28.6	2.6	mg/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.5	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.6	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	1.0	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.57	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.091	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.045	ug/l	1
00807	Fluoranthene	206-44-0	0.064 J	0.045	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.20	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.023	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.045	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.023	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.045	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.091	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.091	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.023	ug/l	1

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804577

MA3-TG3-3-062806-12 Groundwater
 4, 6, 13, 14-062806 02687.007.007.0001
 Moss-American
 Collected: 06/28/2006 14:40

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M3312 SDG#: KMA83-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 12:02	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 21:06	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	2	07/07/2006 15:13	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	2	07/13/2006 10:38	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:40	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/02/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 18:08	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 07:20	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 18:08	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50	Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804578

MA3-TG4-1-062806-7 Groundwater
 4,6,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 12:15

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M4107 SDG#: KMA83-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
00217	Kjeldahl Nitrogen	7727-37-9	1.0	Detection Limit	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.72	0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.	0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.	1.9	mg/l	1
00273	Total Organic Carbon	n.a.	9.2	1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	24.9	2.6	mg/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC.					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.98	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.54	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.087	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.044	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.044	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.20	ug/l	1
00812	Benzo (a) anthracene	56-55-3	N.D.	0.022	ug/l	1
00818	Benzo (b) fluoranthene	205-99-2	N.D.	0.044	ug/l	1
00823	Benzo (a) pyrene	50-32-8	N.D.	0.022	ug/l	1
00895	Dibenz (a, h) anthracene	53-70-3	N.D.	0.044	ug/l	1
00898	Indeno (1, 2, 3-cd) pyrene	193-39-5	N.D.	0.087	ug/l	1
00907	Benzo (g, h, i) perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.087	ug/l	1
07410	Benzo (k) fluoranthene	207-08-9	N.D.	0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804578

MA3-TG4-1-062806-7 Groundwater
 4,6,13,14-062806 02687.007.007.0001

Moss American
 Collected:06/28/2006 12:15

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M4107 SDG#: KMA83-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 12:03	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 21:07	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	2	07/07/2006 15:14	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	2	07/13/2006 10:46	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:41	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/08/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 18:38	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846-8310	1	07/08/2006 07:59	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 18:38	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50	Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804579

MA3-TG4-2-062806-8 Groundwater
 3,4,6,13,14-062806 02687.007.007.0001
 Moss American
 Collected: 06/28/2006 12:25

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M4208 SDG#: KMA83-13BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
00217	Kjeldahl Nitrogen	7727-37-9	0.85 J	Detection Limit	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.85	0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.	0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.	2.8	mg/l	1
00273	Total Organic Carbon	n.a.	10.3	1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	28.9	2.6	mg/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.6	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.8	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	1.1	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.63	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.10	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.050	ug/l	1
00807	Fluoranthene	206-44-0	0.23 J	0.050	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.23	ug/l	1
00812	Benzo (a) anthracene	56-55-3	N.D.	0.025	ug/l	1
00818	Benzo (b) fluoranthene	205-99-2	N.D.	0.050	ug/l	1
00823	Benzo (a) pyrene	50-32-8	N.D.	0.025	ug/l	1
00895	Dibenz (a, h) anthracene	53-70-3	N.D.	0.050	ug/l	1
00898	Indeno (1, 2, 3-cd) pyrene	193-39-5	N.D.	0.10	ug/l	1
00907	Benzo (g, h, i) perylene	191-24-2	N.D.	0.13	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.10	ug/l	1
07410	Benzo (k) fluoranthene	207-08-9	N.D.	0.025	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804579

MA3-TG4-2-062806-8 Groundwater
 3,4,6,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 12:25

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M4208 SDG#: KMA83-13BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 13:56	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 21:08	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	2	07/07/2006 15:15	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	2	07/13/2006 10:54	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:42	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/08/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 19:08	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/07/2006 22:56	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 19:08	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50	Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804580

MA3-TG4-2-062806-8-MS Groundwater
3,11-062806 02687.007.007.0001

Moss American
Collected: 06/28/2006 12:25

Account Number: 11947

Submitted: 06/29/2006 10:15
Reported: 08/03/2006 at 15:23
Discard: 10/03/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

M4208 SDG#: KMA83-13MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
08213	BTEX (8021)					
00776	Benzene	71-43-2	19.	0.2	ug/l	1
00777	Toluene	108-88-3	20.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	20.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	60.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	220.	1.6	ug/l	1
00782	Acenaphthylene	208-96-8	230.	1.8	ug/l	1
00783	Acenaphthene	83-32-9	230.	1.1	ug/l	1
00784	Fluorene	86-73-7	25.	0.63	ug/l	1
00785	Phenanthrene	85-01-8	7.6	0.10	ug/l	1
00789	Anthracene	120-12-7	3.7	0.050	ug/l	1
00807	Fluoranthene	206-44-0	4.0	0.050	ug/l	1
00811	Pyrene	129-00-0	25.	0.23	ug/l	1
00812	Benzo(a)anthracene	56-55-3	2.0	0.025	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	1.6	0.050	ug/l	1
00823	Benzo(a)pyrene	50-32-8	2.1	0.025	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	3.9	0.050	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	7.8	0.10	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	15.	0.13	ug/l	1
07409	Chrysene	218-01-9	7.6	0.10	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	1.6	0.025	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4804580

MA3-TG4-2-062806-8-MS Groundwater
3,11-062806 02687.007.007.0001

Moss American

Collected: 06/28/2006 12:25

Account Number: 11947

Submitted: 06/29/2006 10:15

Reported: 08/03/2006 at 15:23

Discard: 10/03/2006

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

M4208 SDG#: KMA83-13MS

08213 BTEX (8021)

00774 PAH's in Water by HPLC

01146 GC VOA Water Prep

03337 PAH Water Extraction

SW-846 8021B

SW-846 8310

SW-846 5030B

SW-846 3510C

1	07/06/2006 19:37	Steven A Skiles	1
1	07/07/2006 23:34	Mark A Clark	1
1	07/06/2006 19:37	Steven A Skiles	1
1	07/01/2006 15:30	Emma L Eck	1



Lancaster Laboratories Sample No. WW 4804581

MA3-TG4-2-062806-8-MSD Groundwater
 3,11-062806 02687.007.007.0001
 Moss American
 Collected: 06/28/2006 12:25

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M4208 SDG#: KMA83-13MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08213	BTEX (8021)					
00776	Benzene	71-43-2	18.	0.2	ug/l	1
00777	Toluene	108-88-3	19.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	19.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	57.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	240.	1.6	ug/l	1
00782	Acenaphthylene	208-96-8	250.	1.8	ug/l	1
00783	Acenaphthene	83-32-9	250.	1.1	ug/l	1
00784	Fluorene	86-73-7	26.	0.63	ug/l	1
00785	Phenanthrene	85-01-8	8.0	0.10	ug/l	1
00789	Anthracene	120-12-7	3.8	0.050	ug/l	1
00807	Fluoranthene	206-44-0	4.2	0.050	ug/l	1
00811	Pyrene	129-00-0	26.	0.23	ug/l	1
00812	Benzo(a)anthracene	56-55-3	2.0	0.025	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	1.6	0.050	ug/l	1
00823	Benzo(a)pyrene	50-32-8	2.1	0.025	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	4.0	0.050	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	7.9	0.10	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	16.	0.13	ug/l	1
07409	Chrysene	218-01-9	7.8	0.10	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	1.6	0.025	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4804581

MA3-TG4-2-062806-8-MSD Groundwater
3,11-062806 02687.007.007.0001
Moss American
Collected:06/28/2006 12:25

Account Number: 11947

Submitted: 06/29/2006 10:15
Reported: 08/03/2006 at 15:23
Discard: 10/03/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

M4208	SDG#: KMA83-13MSD					
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 20:07	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 00:13	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 20:07	Steven A Skiles	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1



Lancaster Laboratories Sample No. WW 4804582

MA3-TG4-3-062806-9 Groundwater
 3,6,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected: 06/28/2006 12:40

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M4309 SDG#: KMA83-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
00217	Kjeldahl Nitrogen	7727-37-9	0.94 J	Detection Limit	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	1.1	0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.	0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.	2.3	mg/l	1
00273	Total Organic Carbon	n.a.	10.3	1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	30.4	2.6	mg/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.6	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	1.0	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.55	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.089	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.044	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.044	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.20	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.022	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.044	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.022	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.044	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.089	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.089	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804582

MA3-TG4-3-062806-9 Groundwater
 3,6,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 12:40

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M4309 SDG#: KMA83-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 13:57		Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 21:12		Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	2	07/07/2006 15:28		Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15		Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20		Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43		Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	1	07/05/2006 06:28		James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:45		Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/08/2006 06:50		Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 20:36		Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 08:38		Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 20:36		Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50		Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30		Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00		Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804583

MA3-TG4-3-062806-9-DP Groundwater
4,11-062806 02687.007.007.0001

Moss American

Collected: 06/28/2006 12:40

Account Number: 11947

Submitted: 06/29/2006 10:15
Reported: 08/03/2006 at 15:23
Discard: 10/03/2006

Tronox LLC
P.O. Box 268859
Oklahoma City OK 73126-8859

M439D SDG#: KMA83-15FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
08213	BTEX (8021)			Detection Limit		
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.96	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.54	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.086	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.043	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.043	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo (a) anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo (b) fluoranthene	205-99-2	N.D.	0.043	ug/l	1
00823	Benzo (a) pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz (a, h) anthracene	53-70-3	N.D.	0.043	ug/l	1
00898	Indeno (1, 2, 3-cd) pyrene	193-39-5	N.D.	0.086	ug/l	1
00907	Benzo (g, h, i) perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.086	ug/l	1
07410	Benzo (k) fluoranthene	207-08-9	N.D.	0.021	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		



Lancaster Laboratories Sample No. WW 4804583

MA3-TG4-3-062806-9-DP Groundwater
4,11-062806 02687.007.007.0001

Moss American

Collected: 06/28/2006 12:40

Account Number: 11947

Submitted: 06/29/2006 10:15

Reported: 08/03/2006 at 15:23

Discard: 10/03/2006

Tronex LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

M439D	SDG#: KMA83-15FD					
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 21:06	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 09:17	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 21:06	Steven A Skiles	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1



Lancaster Laboratories Sample No. WW 4804584

MA3-TG5-1-062806-1 Groundwater
 2,5,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 09:20

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M5101 SDG#: KMA83-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
00217	Kjeldahl Nitrogen	7727-37-9	N.D.	0.50	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.	0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.	1.8	mg/l	1
00273	Total Organic Carbon	n.a.	3.9	1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	12.3	2.6	mg/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	0.96	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.53	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.085	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.043	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.043	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.19	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.021	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.043	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.021	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.043	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.085	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.085	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.021	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804584

MA3-TG5-1-062806-1 Groundwater
 2,5,11,13,14-062806 02687.007.007.0001

Moss American
 Collected: 06/28/2006 09:20

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M5101 SDG#: KMA83-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/07/2006 13:58	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 21:13	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	07/05/2006 11:18	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 02:20	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	1	07/05/2006 06:39	James S Mathiot	1
00345	Total Phosphorus as PO4 water.	EPA 365.1	1	07/03/2006 19:47	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/08/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 21:36	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 09:56	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 21:36	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	1	07/06/2006 08:50	Carolyn M Mastropietro	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804585

MA3-TG5-2-062806-2 Groundwater
 2,5,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 09:35

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M5202 SDG#: KMA83-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
00217	Kjeldahl Nitrogen	7727-37-9	N.D.	0.50	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.77	0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.	0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.	2.3	mg/l	1
00273	Total Organic Carbon	n.a.	6.2	1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	16.1	2.6	mg/l	1
08213	BTEX (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774	PAH's in Water by HPLC					
00775	Naphthalene	91-20-3	N.D.	1.5	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	1.6	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	1.0	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.56	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.090	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.045	ug/l	1
00807	Fluoranthene	206-44-0	0.062 J	0.045	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.20	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.022	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.045	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.022	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.045	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.090	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.	0.090	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804585

MA3-TG5-2-062806-2 Groundwater
2,5,11,13,14-062806 02687.007.007.0001

Moss American

Collected: 06/28/2006 09:35

Account Number: 11947

Submitted: 06/29/2006 10:15

Reported: 08/03/2006 at 15:23

Discard: 10/03/2006

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

M5202 SDG#: KMA83-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/12/2006 14:15	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 21:17	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	07/05/2006 11:21	Brian C. Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 03:50	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	1	07/05/2006 06:50	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:48	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	2	07/14/2006 06:55	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 22:05	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 10:35	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 22:05	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	2	07/12/2006 09:00	Nancy J Shoop	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804586

MA3-TG5-3-062806-3 Groundwater
 3,6,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 09:50

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M5303 SDG#: KMA83-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
00217	Kjeldahl Nitrogen	7727-37-9	N.D.	Detection Limit 0.50	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.77	0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.	0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.	2.1	mg/l	1
00273	Total Organic Carbon	n.a.	5.6	1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.	0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	16.2	2.6	mg/l	1
08213 BTEX (8021)						
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00774 PAH's in Water by HPLC						
00775	Naphthalene	91-20-3	N.D.	2.1	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.	2.2	ug/l	1
00783	Acenaphthene	83-32-9	N.D.	1.4	ug/l	1
00784	Fluorene	86-73-7	N.D.	0.80	ug/l	1
00785	Phenanthrene	85-01-8	N.D.	0.13	ug/l	1
00789	Anthracene	120-12-7	N.D.	0.064	ug/l	1
00807	Fluoranthene	206-44-0	N.D.	0.064	ug/l	1
00811	Pyrene	129-00-0	N.D.	0.29	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.	0.032	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.	0.064	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.	0.032	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.	0.064	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.13	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.	0.16	ug/l	1
07409	Chrysenes	218-01-9	N.D.	0.13	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.	0.032	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804586

MA3-TG5-3-062806-3 Groundwater
 3,6,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 09:50

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M5303 SDG#: KMA83-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/12/2006 14:16	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 21:18	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	07/05/2006 11:23	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 03:50	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	1	07/05/2006 07:01	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:49	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/08/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/06/2006 22:35	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 11:52	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/06/2006 22:35	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	2	07/12/2006 09:00	Nancy J Shoop	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804587

MA3-TG6-1-062806-4 Groundwater
 1-062806 02687.007.007.0001
 Moss American
 Collected: 06/28/2006 10:40

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M6104 SDG#: KMA83-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00217	Kjeldahl Nitrogen	7727-37-9	1.9		0.50	mg/l	1
The result obtained for Total Kjeldahl Nitrogen is less than the result obtained for Ammonia-N. The results for both analyses are within the acceptable criteria for duplicate analysis.							
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	2.0		0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.		0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.		3.3	mg/l	1
00273	Total Organic Carbon	n.a.	8.6		1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.		0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	23.7		2.6	mg/l	1
08213	BTEX (8021)						
00776	Benzene	71-43-2	N.D.		0.2	ug/l	1
00777	Toluene	108-88-3	N.D.		0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.		0.6	ug/l	1
00774	PAH's in Water by HPLC						
00775	Naphthalene	91-20-3	N.D.		1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.		1.6	ug/l	1
00783	Acenaphthene	83-32-9	N.D.		1.0	ug/l	1
00784	Fluorene	86-73-7	N.D.		0.56	ug/l	1
00785	Phenanthrene	85-01-8	N.D.		0.089	ug/l	1
00789	Anthracene	120-12-7	N.D.		0.045	ug/l	1
00807	Fluoranthene	206-44-0	N.D.		0.045	ug/l	1
00811	Pyrene	129-00-0	N.D.		0.20	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.		0.022	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.		0.045	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.		0.022	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.		0.045	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.089	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.		0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.		0.089	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.		0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.



Lancaster Laboratories Sample No. WW 4804587

MA3-TG6-1-062806-4 Groundwater
 1-062806 02687.007.007.0001

Moss American

Collected: 06/28/2006 10:40

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M6104 SDG#: KMA83-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00217	Kjeldahl Nitrogen	EPA 351.2	2	07/17/2006 10:14	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 21:19	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	2	07/07/2006 15:29	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 03:50	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	1	07/05/2006 07:12	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:50	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/08/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/05/2006 21:55	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 12:31	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/05/2006 21:55	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	3	07/14/2006 10:35	Nancy J Shoop	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804588

MA3-TG6-2-062806-5 Groundwater
 1-062806 02687.007.007.0001

Moss American

Collected: 06/28/2006 10:55

Account Number: 11947

Submitted: 06/29/2006 10:15

Reported: 08/03/2006 at 15:23

Discard: 10/03/2006

Tronox LLC

P.O. Box 268859

Oklahoma City OK 73126-8859

M6205 SDG#: KMA83-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00217	Kjeldahl Nitrogen	7727-37-9	0.80 J		0.50	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.77		0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.		0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.		2.1	mg/l	1
00273	Total Organic Carbon	n.a.	8.4		1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.		0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	27.7		2.6	mg/l	1
08213	BTEX (8021)						
00776	Benzene	71-43-2	N.D.		0.2	ug/l	1
00777	Toluene	108-88-3	N.D.		0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.		0.6	ug/l	1
	The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 7.						
00774	PAH's in Water by HPLC						
00775	Naphthalene	91-20-3	N.D.		1.4	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.		1.5	ug/l	1
00783	Acenaphthene	83-32-9	N.D.		0.98	ug/l	1
00784	Fluorene	86-73-7	N.D.		0.54	ug/l	1
00785	Phenanthrene	85-01-8	N.D.		0.087	ug/l	1
00789	Anthracene	120-12-7	N.D.		0.043	ug/l	1
00807	Fluoranthene	206-44-0	0.32		0.043	ug/l	1
00811	Pyrene	129-00-0	0.29 J		0.20	ug/l	1
00812	Benzo(a)anthracene	56-55-3	0.072 J		0.022	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	0.075 J		0.043	ug/l	1
00823	Benzo(a)pyrene	50-32-8	0.079 J		0.022	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.		0.043	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.087	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.		0.11	ug/l	1
07409	Chrysene	218-01-9	N.D.		0.087	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	0.031 J		0.022	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for



Lancaster Laboratories Sample No. WW 4804588

MA3-TG6-2-062806-5 Groundwater
 1-062806 02687.007.007.0001

Moss American

Collected: 06/28/2006 10:55

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M6205 SDG#: KMA83-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
	analysis. The reporting limits were raised accordingly.					

State of Wisconsin Lab Certification No. EN 748

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/12/2006 14:17	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 21:21	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	07/05/2006 11:24	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/10/2006 19:15	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 03:50	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	1	07/05/2006 07:24	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:54	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/08/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/05/2006 22:25	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 13:10	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/05/2006 22:25	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	2	07/12/2006 09:00	Nancy J Shoop	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Lancaster Laboratories Sample No. WW 4804589

MA3-TG6-3-062806-6 Groundwater
 2,5,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected: 06/28/2006 11:10

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M6306 SDG#: KMA83-21*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
00217	Kjeldahl Nitrogen	7727-37-9	0.73 J		0.50	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.		0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.		0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.89		0.20	mg/l	1
00226	Ortho-Phosphate as P	7723-14-0	N.D.		0.010	mg/l	1
00235	Biochemical Oxygen Demand	n.a.	N.D.		2.0	mg/l	1
00273	Total Organic Carbon	n.a.	7.6		1.0	mg/l	1
00345	Total Phosphorus as PO4 water	14265-44-2	N.D.		0.25	mg/l	1
01553	Chemical Oxygen Demand	n.a.	21.7		2.6	mg/l	1
08213	BTEX (8021)						
00776	Benzene	71-43-2	N.D.		0.2	ug/l	1
00777	Toluene	108-88-3	N.D.		0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.		0.6	ug/l	1
00774	PAH's in Water by HPLC						
00775	Naphthalene	91-20-3	N.D.		1.7	ug/l	1
00782	Acenaphthylene	208-96-8	N.D.		1.8	ug/l	1
00783	Acenaphthene	83-32-9	N.D.		1.2	ug/l	1
00784	Fluorene	86-73-7	N.D.		0.66	ug/l	1
00785	Phenanthrene	85-01-8	N.D.		0.11	ug/l	1
00789	Anthracene	120-12-7	N.D.		0.053	ug/l	1
00807	Fluoranthene	206-44-0	0.068 J		0.053	ug/l	1
00811	Pyrene	129-00-0	N.D.		0.24	ug/l	1
00812	Benzo(a)anthracene	56-55-3	N.D.		0.026	ug/l	1
00818	Benzo(b)fluoranthene	205-99-2	N.D.		0.053	ug/l	1
00823	Benzo(a)pyrene	50-32-8	N.D.		0.026	ug/l	1
00895	Dibenz(a,h)anthracene	53-70-3	N.D.		0.053	ug/l	1
00898	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.11	ug/l	1
00907	Benzo(g,h,i)perylene	191-24-2	N.D.		0.13	ug/l	1
07409	Chrysené	218-01-9	N.D.		0.11	ug/l	1
07410	Benzo(k)fluoranthene	207-08-9	N.D.		0.026	ug/l	1

Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

State of Wisconsin Lab Certification No. EN 748



Lancaster Laboratories Sample No. WW 4804589

MA3-TG6-3-062806-6 Groundwater
 2,5,11,13,14-062806 02687.007.007.0001
 Moss American
 Collected:06/28/2006 11:10

Account Number: 11947

Submitted: 06/29/2006 10:15
 Reported: 08/03/2006 at 15:23
 Discard: 10/03/2006

Tronox LLC
 P.O. Box 268859
 Oklahoma City OK 73126-8859

M6306 SDG#: KMA83-21*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
---------	---------------	------------	--------------------	------------------------------------	-------	-----------------

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00217	Kjeldahl Nitrogen	EPA 351.2	1	07/12/2006 14:20	Nicole M Kepley	1
00219	Nitrite Nitrogen	EPA 353.2	1	06/29/2006 21:24	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	2	07/07/2006 15:25	Brian C Veety	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/11/2006 17:00	Luz M Groff	1
00226	Ortho-Phosphate as P	EPA 365.3	1	06/30/2006 03:50	Daniel S Smith	1
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/29/2006 13:43	Christopher M Cunningham	1
00273	Total Organic Carbon	EPA 415.1	1	07/05/2006 07:57	James S Mathiot	1
00345	Total Phosphorus as PO4 water	EPA 365.1	1	07/03/2006 19:55	Venia B McFadden	1
01553	Chemical Oxygen Demand	EPA 410.2	1	07/08/2006 06:50	Susan A Engle	1
08213	BTEX (8021)	SW-846 8021B	1	07/05/2006 22:55	Steven A Skiles	1
00774	PAH's in Water by HPLC	SW-846 8310	1	07/08/2006 13:49	Mark A Clark	1
01146	GC VOA Water Prep	SW-846 5030B	1	07/05/2006 22:55	Steven A Skiles	1
01460	Total Kjeldahl Nitrogen Digest	EPA 351.2	2	07/12/2006 09:00	Nancy J Shoop	1
03337	PAH Water Extraction	SW-846 3510C	1	07/01/2006 15:30	Emma L Eck	1
08264	Total Phos as PO4 Prep (water)	EPA 365.1	1	06/30/2006 16:00	Nancy J Shoop	1



Quality Control Summary

Client Name: Tronox LLC
 Reported: 08/03/06 at 03:23 PM

Group Number: 995493

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 06180023502A Biochemical Oxygen Demand			Sample number(s): 4804569-4804579, 4804582, 4804584-4804589	98	96	85-115	3	8
Batch number: 06180105101B Nitrite Nitrogen	N.D.	0.015	mg/l	98		90-110		
Batch number: 06180105102A Nitrite Nitrogen	N.D.	0.015	mg/l	99		90-110		
Batch number: 06180105102B Nitrite Nitrogen	N.D.	0.015	mg/l	99		90-110		
Batch number: 06181022601A Ortho-Phosphate as P	N.D.	0.010	mg/l	100		95-105		
Batch number: 06181022602A Ortho-Phosphate as P	N.D.	0.010	mg/l	98		95-105		
Batch number: 06181110101A Total Phosphorus as PO4 water	N.D.	0.25	mg/l	105		89-110		
Batch number: 06181110101B Total Phosphorus as PO4 water	N.D.	0.25	mg/l	105		89-110		
Batch number: 06181WAJ026 Naphthalene	N.D.	1.3	ug/l	97		57-109		
Acenaphthylene	N.D.	1.4	ug/l	99		67-99		
Acenaphthene	N.D.	0.90	ug/l	99		60-116		
Fluorene	N.D.	0.50	ug/l	104*		75-102		
Phenanthrene	N.D.	0.080	ug/l	107		67-115		
Anthracene	N.D.	0.040	ug/l	101		68-113		
Fluoranthene	N.D.	0.040	ug/l	106		70-112		
Pyrene	N.D.	0.18	ug/l	105		69-113		
Benzo(a)anthracene	N.D.	0.020	ug/l	109		73-114		
Benzo(b)fluoranthene	N.D.	0.040	ug/l	110		72-113		
Benzo(a)pyrene	N.D.	0.020	ug/l	114*		68-112		
Dibenz(a,h)anthracene	N.D.	0.040	ug/l	109		31-121		
Indeno(1,2,3-cd)pyrene	N.D.	0.080	ug/l	107		66-109		
Benzo(g,h,i)perylene	N.D.	0.10	ug/l	107		14-124		
Chrysene	N.D.	0.080	ug/l	105		70-111		
Benzo(k)fluoranthene	N.D.	0.020	ug/l	110		72-119		
Batch number: 06183155301A Chemical Oxygen Demand			Sample number(s): 4804569-4804577	101		87-102		
Batch number: 06184049512B			Sample number(s): 4804569-4804572					

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Quality Control Summary

Client Name: Tronox LLC
 Reported: 08/03/06 at 03:23 PM

Group Number: 995493

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Total Organic Carbon	N.D.	1.0	mg/l	94		80-120		
Batch number: 06184049513A	Sample number(s): 4804582,4804584-4804587							
Total Organic Carbon	N.D.	1.0	mg/l	93		80-120		
Batch number: 06184049513B	Sample number(s): 4804588-4804589							
Total Organic Carbon	N.D.	1.0	mg/l	93		80-120		
Batch number: 06186106101A	Sample number(s): 4804570-4804576,4804584-4804586							
Nitrate Nitrogen	N.D.	0.040	mg/l	106		89-110		
Batch number: 06186106101B	Sample number(s): 4804569,4804588							
Nitrate Nitrogen	N.D.	0.040	mg/l	106		89-110		
Batch number: 06186A15A	Sample number(s): 4804587-4804589							
Benzene	N.D.	0.2	ug/l	96	90	86-119	6	30
Toluene	N.D.	0.2	ug/l	99	93	82-119	6	30
Ethylbenzene	N.D.	0.2	ug/l	99	94	81-119	5	30
Total Xylenes	N.D.	0.6	ug/l	103	97	82-120	6	30
Batch number: 06187108101A	Sample number(s): 4804569-4804578							
Kjeldahl Nitrogen	N.D.	0.50	mg/l	98		90-110		
Batch number: 06187108101B	Sample number(s): 4804579,4804582,4804584							
Kjeldahl Nitrogen	N.D.	0.50	mg/l	98		90-110		
Batch number: 06187A15A	Sample number(s): 4804567-4804586							
Benzene	N.D.	0.2	ug/l	99	101	86-119	2	30
Toluene	N.D.	0.2	ug/l	101	103	82-119	2	30
Ethylbenzene	N.D.	0.2	ug/l	101	105	81-119	3	30
Total Xylenes	N.D.	0.6	ug/l	104	107	82-120	3	30
Batch number: 06188106102A	Sample number(s): 4804577,4804579,4804589							
Nitrate Nitrogen	N.D.	0.040	mg/l	108		89-110		
Batch number: 06188106102B	Sample number(s): 4804578,4804582,4804587							
Nitrate Nitrogen	N.D.	0.040	mg/l	108		89-110		
Batch number: 06189155301A	Sample number(s): 4804578-4804579,4804582,4804584,4804586-4804589							
Chemical Oxygen Demand				96		87-102		
Batch number: 06191022101A	Sample number(s): 4804569-4804579,4804582,4804584-4804588							
Ammonia Nitrogen	N.D.	0.20	mg/l	97	97	91-100	1	1
Batch number: 06192022101A	Sample number(s): 4804589							
Ammonia Nitrogen	N.D.	0.20	mg/l	98	97	91-100	1	1
Batch number: 06193108102A	Sample number(s): 4804585							
Kjeldahl Nitrogen	N.D.	0.50	mg/l	91		90-110		
Batch number: 06193108102B	Sample number(s): 4804586,4804588-4804589							
Kjeldahl Nitrogen	N.D.	0.50	mg/l	91		90-110		
Batch number: 06194049511A	Sample number(s): 4804573-4804579							

*- Outside of specification

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- (2) The background result was more than four times the spike added.



Quality Control Summary

Client Name: Tronox LLC
 Reported: 08/03/06 at 03:23 PM

Group Number: 995493

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Total Organic Carbon	N.D.	1.0	mg/l	99		80-120		
Batch number: 06195108101A Kjeldahl Nitrogen	N.D.	0.50	mg/l	99		90-110		
Batch number: 06195155301A Chemical Oxygen Demand				92		87-102		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 06180023502A Biochemical Oxygen Demand	103	100	67-144	4	9	N.D.	N.D.	11* (1)	9
Batch number: 06180105101B Nitrite Nitrogen	99		90-110			N.D.	N.D.	14 (1)	20
Batch number: 06180105102A Nitrite Nitrogen	97		90-110			N.D.	N.D.	0 (1)	20
Batch number: 06180105102B Nitrite Nitrogen	104		90-110			N.D.	N.D.	0 (1)	20
Batch number: 06181022601A Ortho-Phosphate as P	97	100	91-110	3	4	N.D.	N.D.	200* (1)	5
Batch number: 06181022602A Ortho-Phosphate as P	98	99	91-110	1	4	N.D.	N.D.	200* (1)	5
Batch number: 06181110101A Total Phosphorus as PO4 water	100		90-110			N.D.	N.D.	0 (1)	3
Batch number: 06181110101B Total Phosphorus as PO4 water	112*		90-110			N.D.	N.D.	0 (1)	3
Batch number: 06181WAJ026 Naphthalene	87	97	54-112	10	30				
Acenaphthylene	90	98	63-104	8	30				
Acenaphthene	92	98	59-114	6	30				
Fluorene	98	105*	71-99	6	30				
Phenanthrene	101	106	66-115	5	30				
Anthracene	99	103	68-104	3	30				
Fluoranthene	101	105*	67-104	4	30				
Pyrene	100	102	66-106	2	30				
Benzo (a) anthracene	105	107	63-111	2	30				
Benzo (b) fluoranthene	106	108*	71-106	2	30				

*- Outside of specification

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Quality Control Summary

Client Name: Tronox LLC
 Reported: 08/03/06 at 03:23 PM

Group Number: 995493

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)pyrene	110*	112*	69-109	2	30				
Dibenz(a,h)anthracene	104	106	62-115	2	30				
Indeno(1,2,3-cd)pyrene	104	106	56-112	2	30				
Benzo(g,h,i)perylene	102	104	56-115	2	30				
Chrysene	102	104*	76-103	2	30				
Benzo(k)fluoranthene	106	108	70-109	1	30				
Batch number: 06183155301A Sample number(s): 4804569-4804577 UNSPK: P801936 BKG: P802077									
Chemical Oxygen Demand	111	107	60-129	4	5	43.7	45.2	4	8
Batch number: 06184049512B Sample number(s): 4804569-4804572 UNSPK: P803823 BKG: P803823									
Total Organic Carbon	114		62-148			N.D.	N.D.	200* (1)	2
Batch number: 06184049513A Sample number(s): 4804582,4804584-4804587 UNSPK: P804579 BKG: P804579									
Total Organic Carbon	99		62-148			9.8	10.	2 (1)	2
Batch number: 06184049513B Sample number(s): 4804588-4804589 UNSPK: 4804588 BKG: 4804588									
Total Organic Carbon	98		62-148			8.4	8.0	4* (1)	2
Batch number: 06186106101A Sample number(s): 4804570-4804576,4804584-4804586 UNSPK: 4804570 BKG: 4804570									
Nitrate Nitrogen	85*		90-110			0.066 J	0.050 J	27* (1)	2
Batch number: 06186106101B Sample number(s): 4804569,4804588 UNSPK: 4804588 BKG: 4804588									
Nitrate Nitrogen	106		90-110			N.D.	N.D.	0 (1)	2
Batch number: 06186A15A Sample number(s): 4804587-4804589 UNSPK: P803999									
Benzene	94		78-131						
Toluene	96		78-129						
Ethylbenzene	97		75-133						
Total Xylenes	99		84-131						
Batch number: 06187108101A Sample number(s): 4804569-4804578 UNSPK: 4804569 BKG: 4804569									
Kjeldahl Nitrogen	97		90-110			0.63 J	1.1	54* (1)	7
Batch number: 06187108101B Sample number(s): 4804579,4804582,4804584 UNSPK: 4804584 BKG: 4804584									
Kjeldahl Nitrogen	82*		90-110			N.D.	N.D.	27* (1)	7
Batch number: 06187A15A Sample number(s): 4804567-4804586 UNSPK: 4804579									
Benzene	95	92	78-131	4	30				
Toluene	98	93	78-129	5	30				
Ethylbenzene	98	93	75-133	5	30				
Total Xylenes	100	95	84-131	5	30				
Batch number: 06188106102A Sample number(s): 4804577,4804579,4804589 UNSPK: 4804577 BKG: 4804577									
Nitrate Nitrogen	89*		90-110			N.D.	0.045 J	200* (1)	2
Batch number: 06188106102B Sample number(s): 4804578,4804582,4804587 UNSPK: 4804578 BKG: 4804578									
Nitrate Nitrogen	104		90-110			N.D.	N.D.	0 (1)	2
Batch number: 06189155301A Sample number(s): 4804578-4804579,4804582,4804584,4804586-4804589 UNSPK:									
Chemical Oxygen Demand	95	99	60-129	2	5	69.6	71.9	3	8

*- Outside of specification

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Quality Control Summary

Client Name: Tronox LLC
 Reported: 08/03/06 at 03:23 PM

Group Number: 995493

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 06191022101A Ammonia Nitrogen	Sample number(s): 4804569-4804579, 4804582, 4804584-4804588 BKG: 4804579								
						0.85	0.85	0 (1)	2
Batch number: 06192022101A Ammonia Nitrogen	Sample number(s): 4804589 BKG: 4804589								
						0.89	0.94	5* (1)	2
Batch number: 06193108102A Kjeldahl Nitrogen	Sample number(s): 4804585 UNSPK: P803197 BKG: P803197								
	100		90-110			N.D.	0.62 J	200* (1)	7
Batch number: 06193108102B Kjeldahl Nitrogen	Sample number(s): 4804586, 4804588-4804589 UNSPK: 4804589 BKG: 4804589								
	76*		90-110			0.73 J	0.66 J	10* (1)	7
Batch number: 06194049511A Total Organic Carbon	Sample number(s): 4804573-4804579 UNSPK: 4804579 BKG: 4804579								
	102		62-148			10.3	10.4	1	2
Batch number: 06195108101A Kjeldahl Nitrogen	Sample number(s): 4804587 UNSPK: P799801 BKG: P799801								
	82*		90-110			4.5	4.7	5 (1)	7
Batch number: 06195155301A Chemical Oxygen Demand	Sample number(s): 4804585 UNSPK: P809294 BKG: P809294								
	93	93	60-129	0	5	29.9	30.3	1 (1)	8

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PAH's in Water by HPLC
 Batch number: 06181WAJ026

	Nitrobenzene	Triphenylene
4804567	109	113
4804569	115	3552*
4804570	115	110
4804571	110	113
4804572	107	113
4804573	110	113
4804574	112	114
4804575	106	109
4804576	112	113
4804577	105	112
4804578	109	110
4804579	106	110
4804580	107	107
4804581	113	114
4804582	111	114
4804583	101	108
4804584	109	110
4804585	111	109
4804586	111	117

*: Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
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Quality Control Summary

Client Name: Tronox LLC
 Reported: 08/03/06 at 03:23 PM

Group Number: 995493

Surrogate Quality Control

4804587	106	112
4804588	109	110
4804589	112	115
Blank	104	112
LCS	116	116
MS	107	107
MSD	113	114

Limits: 80-138 55-130

Analysis Name: BTEX (8021)
 Batch number: 06186A15A
 Trifluorotoluene-P

4804587	104
4804588	104
4804589	104
Blank	104
LCS	103
LCS D	103
MS	102

Limits: 69-129

Analysis Name: BTEX (8021)
 Batch number: 06187A15A
 Trifluorotoluene-P

4804567	104
4804568	104
4804569	102
4804570	102
4804571	104
4804572	104
4804573	104
4804574	104
4804575	104
4804576	105
4804577	104
4804578	104
4804579	104
4804580	103
4804581	103
4804582	104
4804583	104
4804584	104
4804585	105
4804586	104
Blank	105
LCS	103
LCS D	102
MS	103
MSD	103

Limits: 69-129

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
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Quality Control Summary

Client Name: Tronox LLC
Reported: 08/03/06 at 03:23 PM.

Group Number: 995493

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

COC ID: COC1-06282006

Chain of Custody Record



Client Kerr McGee
 Site Name Moss American
 W. O. 02687.007.007.0001
 Lab LANCASTER LABS
 TAT PER QUOTE

Contact Name Tom Graan
 Contact Phone No. 847-918-4142
 Lab Contact C. SWEIGART
 Lab Phone 717-656-2308 X1527

350.2-NH3	351.2-TP-4102-COD TKN 365.1-	353.2-NO2	353.2-NO3	365.3-OR-405.1-BOD	415.1-TOC	8021B-ATEX	8310-PHHS	MICROBIAL ENUMERATIO N			
Filtered	Container	Preservative	0ml-Round G	0ml-Round G	0ml-Glass Vi	0ml-Glass Vi	1000ml-Plastic	0ml-Round An	0ml-Glass Vid	L Amber	0ml-Sterile P
H2SO4	H2SO4	N/A	H2SO4	N/A	H3PO4	HCl	N/A	N/A			
1	1	1	1	1	1	3	2	1			
1	1	1	1	1	1	3	2	1			

RECEIVED
AUG 11 2006

Remarks/Comments

Sampled By Castillo

Lab Use Only

Temp of Cooler when Received, C

1	2	3	4	5
---	---	---	---	---

COC Tape was present on outer package Y N
 Received in good condition Y N
 COC Tape was unbroken on outer package Y N
 Labels indicate Property Preserved Y N
 COC Tape was present on sample Y N
 Received within Holding Time Y N
 COC Tape was unbroken on sample Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<u>ADG</u>	<u>6/28/06 1800</u>						
						<u>A. Hutchins</u>	<u>6/29/06 1015</u>

11947 945493 4804567-90

Chain of Custody Record



COC ID: @OC1-06282006

Client **Kerr McGee**
 Site Name **Moss American**
 W. O. **02687.007.007.0001**
 Lab **LANCASTER LABS**
 TAT **PER QUOTE**

Contact Name **Tom Graan**
 Contact Phone No. **847-918-4142**
 Lab Contact **C. SWEIGART**
 Lab Phone **717-656-2308 X1527**

350.2-NH3	351.2-TKN/36.1-TP/410.2-COD	353.2-NO2	353.2-NO3	365.3-OP/405.1-BOD	415.1-TOC	802.1B-BTEX	830.0-PAHS	MICROBIAL ENUMERATION
0ml-Round Glass	0ml-Round Glass	0ml-Glass Vial	0ml-Glass Vial	1000ml-Plastic	ml-Round Glass	ml-Round Glass	ml-Amber	0ml-Sterile P
H2SO4	H2SO4	N/A	H2SO4	N/A	H3PO4	HCl	N/A	N/A
1	1	1	1	1	1	3	2	1
1	1	1	1	1	1	3	2	1

Filtered
 Container
 Preservative

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected
	MA3-TG6-1-062806-4	W		N	6/28/2006 10:40
	MA3-TG6-2-062806-5	W		N	6/28/2006 10:55

Remarks/Comments

Sampled By Castillo

Lab Use Only

Temp of Cooler when Received, C

1	2	3	4	5
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COC Tape was present on outer package Y N
 Received in good condition Y N
 COC Tape was unbroken on outer package Y N
 Labels indicate Property Preserved Y N
 COC Tape was present on sample Y N
 Received within Holding Time Y N
 COC Tape was unbroken on sample Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<u>Rece</u>	<u>6/28/06 1800</u>					<u>A. Hulteen</u>	<u>6/29/06 1015</u>

66... 19 9: 4-45 -9

COC ID: COC1-06282006

Chain of Custody Record



Client **Kerr McGee**
 Site Name **Moss American**
 W. O. **02687.007.007.0001**
 Lab **LANCASTER LABS**
 TAT **PER QUOTE**

Contact Name **Tom Graan**
 Contact Phone No. **847-918-4142**
 Lab Contact **C. SWEIGART**
 Lab Phone **717-656-2308 X1527**

3502-NH3	TKN3631-TP4102-OND	3512-	3332-N02	3332-N03	9653-OP/405.1-BOD	45.1-TOC	8021B-BTEX	8310-PAHS	MICROBIAL ENRICHMENT
0ml-Round G	0ml-Round G	0ml-Glass Vi	0ml-Glass Vi	100ml-Plastic	1-Round An	0ml-Glass Vi	0ml Amber	0ml-Sterile P	
H2SO4	H2SO4	N/A	H2SO4	N/A	H3PO4	HCl	N/A	N/A	
1	1	1	1	1	1	3	2	1	
1	1	1	1	1	1	3	2	1	

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected
	MA3-TG6-1-062806-4	W		N	6/28/2006 10:40
	MA3-TG6-2-062806-5	W		N	6/28/2006 10:55

Remarks/Comments

Lab Use Only

COC Tape was present on outer package Y N
 Received in good condition Y N

Temp of Cooler when Received, C
 1 2 3 4 5

COC Tape was unbroken on outer package Y N
 Labels indicate Property Preserved Y N

COC Tape was present on sample Y N
 Received within Holding Time Y N

COC Tape was unbroken on sample Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<i>J. Ouellet</i>	6-28-06 1800					<i>A. Hutchins</i>	6/29/06 1015

Sampled By *M. Castillo*

COC ID: COC5-06282006

Chain of Custody Record



Client Kerr McGee

Site Name Moss American

W. O. 02687.007.007.0001

Lab LANCASTER LABS

TAT PER QUOTE

Contact Name Tom Graan

Contact Phone No. 847-918-4142

Lab Contact C. SWEIGART

Lab Phone 717-656-2308 X1527

3512- TKN365.1- TP4102-COD 3502-NH3	Filtered																				
	Container	0ml-Round G	0ml-Round G																		
	Preservative	H2SO4	H2SO4																		
Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected																
	MA3-TG5-1-062806-1	W		N	6/28/2006 09:20	1	1														
	MA3-TG5-2-062806-2	W		N	6/28/2006 09:35	1	1														
	MA3-TG6-3-062806-6	W		N	6/28/2006 11:10	1	1														

Remarks/Comments

Sampled By Cash/6

Lab Use Only

Temp of Cooler when Received, C

1	2	3	4	5
---	---	---	---	---

COC Tape was present on outer package Y N

Received in good condition Y N

COC Tape was unbroken on outer package Y N

Labels indicate Property Preserved Y N

COC Tape was present on sample Y N

Received within Holding Time Y N

COC Tape was unbroken on sample Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<u>[Signature]</u>	<u>6/28/06 1800</u>					<u>[Signature]</u>	<u>6/29/06 1015</u>

11947 495493 4804567-90

Chain of Custody Record



COC ID: **COC9-06282006**

Client **Kerr McGee**

Site Name **Moss American**

W. O. **02687.007.007.0001**

Lab **LANCASTER LABS**

TAT **PER QUOTE**

Contact Name **Tom Graan**

Contact Phone No. **847-918-4142**

Lab Contact **C. SWEIGART**

Lab Phone **717-656-2308 X1527**

350.2-NH3	TKN 365.1-TP 4102-COD	351.2																	
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Filtered
Container
Preservative

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected	H2SO4	H2SO4												
	MA3-TG2-1-062806-13	W		N	6/28/2006 15:40	1	1												
	MA3-TG2-2-062806-14	W		N	6/28/2006 15:55	1	1												
	MA3-TG2-3-062806-15	W		N	6/28/2006 16:05	1	1												
	MA3-TG3-1-062806-10	W		N	6/28/2006 14:00	1	1												
	MA3-TG3-2-062806-11	W		N	6/28/2006 14:20	1	1												

Remarks/Comments

Sampled By Cash/w

Lab Use Only

Temp of Cooler when Received, C

1	2	3	4	5
---	---	---	---	---

COC Tape was present on outer package Y N
 COC Tape was unbroken on outer package Y N
 COC Tape was present on sample Y N
 COC Tape was unbroken on sample Y N

Received in good condition Y N
 Labels indicate Properly Preserved Y N
 Received within Holding Time Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<u>NO</u>	<u>6/28/06 1800</u>						
						<u>A-Hutcher</u>	<u>6/29/06 1015</u>

47 5 04-7

COC ID: COC10-06282006

Chain of Custody Record



Client **Kerr McGee**
 Site Name **Moss American**
 W. O. **02687.007.007.0001**
 Lab **LANCASTER LABS**
 TAT **PER QUOTE**

Contact Name **Tom Graan**
 Contact Phone No. **847-918-4142**
 Lab Contact **C. SWEIGART**
 Lab Phone **717-656-2308 X1527**

351.2-TRN365.1-TP4102-COD	8310-P/H/S								
350.2-NH3									
Filtered									
Container	10ml-Round G	10ml-Round G	10ml Amber G						
Preservative	H2SO4	H2SO4	N/A						

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected	H2SO4	H2SO4	N/A						
	MA3-FB-062806-19	W		N	6/28/2006 17:30				2					
	MA3-TG1-1-062806-16	W		N	6/28/2006 16:45	1	1							
	MA3-TG1-2-062806-17	W		N	6/28/2006 16:55	1	1							
	MA3-TG1-3-062806-18	W		N	6/28/2006 17:15	1	1		2					

Remarks/Comments	Lab Use Only		COC Tape was present on outer package Y N		Received in good condition Y N					
	Temp of Cooler when Received, C		COC Tape was unbroken on outer package Y N		Labels indicate Properly Preserved Y N					
	<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </table>		1	2	3	4	5	COC Tape was present on sample Y N		Received within Holding Time Y N
1	2	3	4	5						
COC Tape was unbroken on sample Y N										
Sampled By <u>Castle</u>	Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time		
		<u>2006-06-28 19:00</u>								
							<u>A. Hutchins</u>	<u>6/29/06 10:15</u>		

11947 995493 4804567-90

Chain of Custody Record



COC ID: C0C11-06282006

Client **Kerr McGee**
 Site Name **Moss American**
 W. O. **02887.007.007.0001**
 Lab **LANCASTER LABS**
 TAT **PER QUOTE**

Contact Name **Tom Graan**
 Contact Phone No. **847-918-4142**
 Lab Contact **C. SWEIGART**
 Lab Phone **717-656-2308 X1527**

353.2-NO2	353.2-NO3	8021B-BTEX																	
-----------	-----------	------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Filtered Container Preservative
 10ml-Glass Vial 10ml-Glass Vial 10ml-Glass Vial
 N/A H2SO4 HCl

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected	353.2-NO2	353.2-NO3	8021B-BTEX											
	MA3-TG1-1-062806-16	W		N	6/28/2006 16:45	1	1	3											
	MA3-TG1-2-062806-17	W		N	6/28/2006 16:55	1	1	3											
	MA3-TG1-3-062806-18	W		N	6/28/2006 17:15	1	1	3											
	MA3-TG2-1-062806-13	W		N	6/28/2006 15:40	1	1	3											
	MA3-TG2-2-062806-14	W		N	6/28/2006 15:55	1	1	3											
	MA3-TG2-3-062806-15	W		N	6/28/2006 16:05	1	1	3											
	MA3-TG4-2-062806-8	W		N	6/28/2006 12:25	1	1	3											
	MA3-TG4-2-062806-8-MSD	W		Y	6/28/2006 12:25	2	2	6											- Did not receive NO2/NO3 bottles
	MA3-TG4-3-062806-9	W		N	6/28/2006 12:40	1	1	3											
	MA3-TG4-3-062806-9-DP	W		N	6/28/2006 12:40	1	1	3											- Did not receive NO2/NO3 bottles
	MA3-TG5-1-062806-1	W		N	6/28/2006 09:20	1	1	3											
	MA3-TG5-2-062806-2	W		N	6/28/2006 09:35	1	1	3											
	MA3-TG5-3-062806-3	W		N	6/28/2006 09:50	1	1	3											
	MA3-TG6-3-062806-6	W		N	6/28/2006 11:10	1	1	3											gub #47 7/3/06

Remarks/Comments
 Sampled By Castillo

Lab Use Only

COC Tape was present on outer package Y N
 Received in good condition Y N

Temp of Cooler when Received, C
 1 2 3 4 5

COC Tape was unbroken on outer package Y N
 Labels indicate Properly Preserved Y N

COC Tape was present on sample Y N
 Received within Holding Time Y N

COC Tape was unbroken on sample Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<u>Don</u>	<u>6/29/06 1800</u>						
						<u>A. Hatcher</u>	<u>6/29/06 1015</u>

24 195 03 4--05--4

COC ID: COC12-06282006

Chain of Custody Record



Client **Kerr McGee**
 Site Name **Moss American**
 W. O. **02687.007.007.0001**
 Lab **LANCASTER LABS**
 TAT **PER QUOTE**

Contact Name **Tom Graan**
 Contact Phone No. **847-918-4142**
 Lab Contact **C. SWEIGART**
 Lab Phone **717-656-2308 X1527**

8021B-BTEX																			
	Filtered Container Preservative	0ml-Glass Via	HCl																
Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected														
	MA3-TB-062806-1	W		N	6/28/2006 18:30	3													

did not receive 6/29/06 AH

Remarks/Comments

Sampled By Cash/6

Lab Use Only

COC Tape was present on outer package Y N
 Received in good condition Y N

COC Tape was unbroken on outer package Y N
 Labels indicate Property Preserved Y N

COC Tape was present on sample Y N
 Received within Holding Time Y N

COC Tape was unbroken on sample Y N

Temp of Cooler when Received, C				
1	2	3	4	5

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<u>[Signature]</u>	6/29/06 1800					<u>A. Hutchins</u>	6/29/06 1015

11947 795493 7804567-20

Chain of Custody Record



COC ID: COC13-06282006

Client **Kerr McGee**

Site Name **Moss American**

W. O. **02667.007.007.0001**

Lab **LANCASTER LABS**

TAT **PER QUOTE**

Contact Name **Tom Graan**

Contact Phone No. **847-918-4142**

Lab Contact **C. SWEIGART**

Lab Phone **717-656-2308 X1527**

365.3-OP-405.1-BOD																			
	Filtered																		
	Container																		
Preservative	1000ml-Plastic																		
	NA																		

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected	1													
	MA3-TG1-1-062806-16	W		N	6/28/2006 16:45	1													
	MA3-TG1-2-062806-17	W		N	6/28/2006 16:55	1													
	MA3-TG1-3-062806-18	W		N	6/28/2006 17:15	1													
	MA3-TG2-1-062806-13	W		N	6/28/2006 15:40	1													
	MA3-TG2-2-062806-14	W		N	6/28/2006 15:55	1													
	MA3-TG2-3-062806-15	W		N	6/28/2006 16:05	1													
	MA3-TG3-1-062806-10	W		N	6/28/2006 14:00	1													
	MA3-TG3-2-062806-11	W		N	6/28/2006 14:20	1													
	MA3-TG3-3-062806-12	W		N	6/28/2006 14:40	1													
	MA3-TG4-1-062806-7	W		N	6/28/2006 12:15	1													
	MA3-TG4-2-062806-8	W		N	6/28/2006 12:25	1													
	MA3-TG4-2-062806-8-MSD	W		Y	6/28/2006 12:25	2													
	MA3-TG4-3-062806-9	W		N	6/28/2006 12:40	1													
	MA3-TG4-3-062806-9-DP	W		N	6/28/2006 12:40	1													
	MA3-TG5-1-062806-1	W		N	6/28/2006 09:20	1													
	MA3-TG5-2-062806-2	W		N	6/28/2006 09:35	1													
	MA3-TG5-3-062806-3	W		N	6/28/2006 09:50	1													
	MA3-TG6-3-062806-6	W		N	6/28/2006 11:10	1													

Remarks/Comments

Lab Use Only

Temp of Cooler when Received, C

1	2	3	4	5
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COC Tape was present on outer package Y N

Received in good condition Y N

COC Tape was unbroken on outer package Y N

Labels indicate Property Preserved Y N

COC Tape was present on sample Y N

Received within Holding Time Y N

COC Tape was unbroken on sample Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
-----------------	-------------	-------------	-------------	-----------------	-------------	-------------	-------------

Sampled By

Cashilo

2006 6/28/06 1800

A. Hutchins

6/29/06 1015

COC ID: COC14-06282006

Chain of Custody Record



Client **Kerr McGee**

Site Name **Moss American**

W. O. **02687.007.007.0001**

Lab **LANCASTER LABS**

TAT **PER QUOTE**

Contact Name **Tom Graan**

Contact Phone No. **847-918-4142**

Lab Contact **C. SWEIGART**

Lab Phone **717-656-2308 X1527**

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected	353-2-NO2	353-2-NO3	415-1-TOC	8021B-BTEX	PAHS, 8021B-BTEX	8310-				
						10ml-Glass Vial	10ml-Glass Vial	10ml-Round An	10ml-Glass Vial	10ml-Glass Vial					
						N/A	H2SO4	H3PO4	HCl	HCl					
	MA3-FB-062806-19	W		N	6/28/2006 17:30					3					
	MA3-TB-062806-2	W		N	6/28/2006 18:35				3						
	MA3-TG1-1-062805-16	W		N	6/28/2006 16:45			1							
	MA3-TG1-2-062805-17	W		N	6/28/2006 16:55			1							
	MA3-TG1-3-062806-18	W		N	6/28/2006 17:15			1							
	MA3-TG2-1-062806-13	W		N	6/28/2006 15:40			1							
	MA3-TG2-2-062806-14	W		N	6/28/2006 15:55			1							
	MA3-TG2-3-062806-15	W		N	6/28/2006 16:05			1							
	MA3-TG3-1-062806-10	W		N	6/28/2006 14:00	1	1	1	3						
	MA3-TG3-2-062806-11	W		N	6/28/2006 14:20	1	1	1	3						
	MA3-TG3-3-062806-12	W		N	6/28/2006 14:40	1	1	1	3						
	MA3-TG4-1-062806-7	W		N	6/28/2006 12:15	1	1	1	3						
	MA3-TG4-2-062806-8	W		N	6/28/2006 12:25			1							
	MA3-TG4-3-062806-9	W		N	6/28/2006 12:40			1							
	MA3-TG5-1-062806-1	W		N	6/28/2006 09:20			1							
	MA3-TG5-2-062806-2	W		N	6/28/2006 09:35			1							
	MA3-TG5-3-062806-3	W		N	6/28/2006 09:50			1							
	MA3-TG6-3-062806-6	W		N	6/28/2006 11:10			1							

Remarks/Comments

Lab Use Only

Temp of Cooler when Received, C

1	2	3	4	5
---	---	---	---	---

COC Tape was present on outer package Y N

Received in good condition Y N

COC Tape was unbroken on outer package Y N

Labels Indicate Properly Preserved Y N

COC Tape was present on sample Y N

Received within Holding Time Y N

COC Tape was unbroken on sample Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<i>[Signature]</i>	6/28/06 1800						
						<i>[Signature]</i>	6/28/06 1015

Sampled By

Castillo

Microbac

July 27, 2006

Tom Graan
Weston Solutions, Inc.
750 East Bunker Court
Suite 500
Vernon Hills, IL 60061-1450

Work Order No.: ME0606A63

RE: Kerr McGee / Moss American
Dear Tom Graan:

Microbac Laboratories, Inc. received 18 samples on 6/29/2006 10:30:00 AM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted. This report includes the numbered pages as well as the Cooler Inspection Report and Chain of Custody form(s).

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.



Carey A. Gervase
Project Manager

Enclosures

Microbac

WORK ORDER SAMPLE SUMMARY

Date: *Thursday, July 27, 2006*

CLIENT: Weston Solutions, Inc.
Project: Kerr McGee / Moss American
Lab Order: ME0606A63

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
ME0606A63-01A	MA3-TG1-1-062806-16		6/28/2006 4:45:00 PM	6/29/2006
ME0606A63-02A	MA3-TG1-2-062806-17		6/28/2006 4:55:00 PM	6/29/2006
ME0606A63-03A	MA3-TG1-3-062806-18		6/28/2006 5:15:00 PM	6/29/2006
ME0606A63-04A	MA3-TG2-1-062806-13		6/28/2006 3:40:00 PM	6/29/2006
ME0606A63-05A	MA3-TG2-2-062806-14		6/28/2006 3:55:00 PM	6/29/2006
ME0606A63-06A	MA3-TG2-3-062806-15		6/28/2006 4:05:00 PM	6/29/2006
ME0606A63-07A	MA3-TG3-1-062806-10		6/28/2006 2:00:00 PM	6/29/2006
ME0606A63-08A	MA3-TG3-2-062806-11		6/28/2006 2:20:00 PM	6/29/2006
ME0606A63-09A	MA3-TG3-3-062806-12		6/28/2006 2:40:00 PM	6/29/2006
ME0606A63-10A	MA3-TG4-1-062806-7		6/28/2006 12:15:00 PM	6/29/2006
ME0606A63-11A	MA3-TG4-2-062806-8		6/28/2006 12:25:00 PM	6/29/2006
ME0606A63-12A	MA3-TG4-3-062806-9		6/28/2006 12:40:00 PM	6/29/2006
ME0606A63-13A	MA3-TG5-1-062806-1		6/28/2006 9:20:00 AM	6/29/2006
ME0606A63-14A	MA3-TG5-2-062806-2		6/28/2006 9:35:00 AM	6/29/2006
ME0606A63-15A	MA3-TG5-3-062806-3		6/28/2006 9:50:00 AM	6/29/2006
ME0606A63-16A	MA3-TG6-3-062806-6		6/28/2006 11:10:00 AM	6/29/2006
ME0606A63-17A	MA3-TG6-1-062806-4		6/28/2006 10:40:00 AM	6/29/2006
ME0606A63-18A	MA3-TG6-2-062806-5		6/28/2006 10:55:00 AM	6/29/2006

Microbac

ANALYTICAL RESULTS

Date: Thursday, July 27, 2006

Client: Weston Solutions, Inc. Work Order: ME0606A63
 Client Project: Kerr McGee / Moss American Received: 06/29/06 10:30

Analyses	Result	Units	Qual	Analyzed	Tech	Method
01A MA3-TG1-1-062806-16 -						Collected: 06/28/06 16:45
Total Aerobic Degradable Bacteria	710	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	4000	cfu/ml		06/29/06 20:00	BR	9215B MOD
02A MA3-TG1-2-062806-17 -						Collected: 06/28/06 16:55
Total Aerobic Degradable Bacteria	< 100	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	71000	cfu/ml		06/29/06 20:00	BR	9215B MOD
03A MA3-TG1-3-062806-18 -						Collected: 06/28/06 17:15
Total Aerobic Degradable Bacteria	< 100	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	85000	cfu/ml		06/29/06 20:00	BR	9215B MOD
04A MA3-TG2-1-062806-13 -						Collected: 06/28/06 15:40
Total Aerobic Degradable Bacteria	< 100	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	1100	cfu/ml		06/29/06 20:00	BR	9215B MOD
05A MA3-TG2-2-062806-14 -						Collected: 06/28/06 15:55
Total Aerobic Degradable Bacteria	< 100	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	280	cfu/ml		06/29/06 20:00	BR	9215B MOD
06A MA3-TG2-3-062806-15 -						Collected: 06/28/06 16:05
Total Aerobic Degradable Bacteria	720	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	45000	cfu/ml		06/29/06 20:00	BR	9215B MOD
07A MA3-TG3-1-062806-10 -						Collected: 06/28/06 14:00
Total Aerobic Degradable Bacteria	130	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	1600	cfu/ml		06/29/06 20:00	BR	9215B MOD
08A MA3-TG3-2-062806-11 -						Collected: 06/28/06 14:20
Total Aerobic Degradable Bacteria	920	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	1100	cfu/ml		06/29/06 20:00	BR	9215B MOD
09A MA3-TG3-3-062806-12 -						Collected: 06/28/06 14:40
Total Aerobic Degradable Bacteria	240	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	17000	cfu/ml		06/29/06 20:00	BR	9215B MOD
10A MA3-TG4-1-062806-7 -						Collected: 06/28/06 12:15
Total Aerobic Degradable Bacteria	200	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	4400	cfu/ml		06/29/06 20:00	BR	9215B MOD
11A MA3-TG4-2-062806-8 -						Collected: 06/28/06 12:25
Total Aerobic Degradable Bacteria	2400	cfu/ml		06/29/06 20:00	BR	9215B MOD

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ANALYTICAL RESULTS

Date: Thursday, July 27, 2006

Client: Weston Solutions, Inc.
Client Project: Kerr McGee / Moss American

Work Order: ME0606A63
Received: 06/29/06 10:30

Analyses	Result	Units	Qual	Analyzed	Tech	Method
Total Aerobic Bacteria	2200	cfu/ml		06/29/06 20:00	BR	9215B MOD
12A MA3-TG4-3-062806-9 -						Collected: 06/28/06 12:40
Total Aerobic Degradable Bacteria	2000	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	5000	cfu/ml		06/29/06 20:00	BR	9215B MOD
13A MA3-TG5-1-062806-1 -						Collected: 06/28/06 09:20
Total Aerobic Degradable Bacteria	< 100	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	1100	cfu/ml		06/29/06 20:00	BR	9215B MOD
14A MA3-TG5-2-062806-2 -						Collected: 06/28/06 09:35
Total Aerobic Degradable Bacteria	1100	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	820	cfu/ml		06/29/06 20:00	BR	9215B MOD
15A MA3-TG5-3-062806-3 -						Collected: 06/28/06 09:50
Total Aerobic Degradable Bacteria	< 100	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	620	cfu/ml		06/29/06 20:00	BR	9215B MOD
16A MA3-TG6-3-062806-6 -						Collected: 06/28/06 11:10
Total Aerobic Degradable Bacteria	320	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	250	cfu/ml		06/29/06 20:00	BR	9215B MOD
17A MA3-TG6-1-062806-4 -						Collected: 06/28/06 10:40
Total Aerobic Degradable Bacteria	12000	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	44000	cfu/ml		06/29/06 20:00	BR	9215B MOD
18A MA3-TG6-2-062806-5 -						Collected: 06/28/06 10:55
Total Aerobic Degradable Bacteria	1800	cfu/ml		06/29/06 20:00	BR	9215B MOD
Total Aerobic Bacteria	89000	cfu/ml		06/29/06 20:00	BR	9215B MOD

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FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed	N/A	=	Not Applicable		
mg/L	=	Milligrams per Liter (ppm)	ug/L	=	Micrograms per Liter (ppb)	cfu	= Colony Forming Unit
mg/Kg	=	Milligrams per Kilogram (ppm)	ug/Kg	=	Micrograms per Kilogram (ppb)	ng/L	= Nanograms per Liter (ppt)
U	=	Undetected					
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)					
B	=	Detected in the associated Method Blank at a concentration above the routine PQL/RL					
b	=	Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL					
D	=	Surrogate recoveries are not calculated due to sample dilution					
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)					
E	=	Value above quantitation range					
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time					
I	=	Matrix Interference					
R	=	RPD outside accepted recovery limits					
S	=	Spike recovery outside recovery limits					
Surr	=	Surrogate					
DF	=	Dilution Factor	RL	=	Reporting Limit	ST	= Sample Type
						MDL	= Method Detection Limit

SAMPLE TYPES

A	=	Analyte
I	=	Internal Standard
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"	OPR	=	Ongoing Precision and Recovery Standard
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"			
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate			
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate			
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank			
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification			
PDS	=	Post Digestion Spike	SD	=	Serial Dilution			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses.
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

MICROBAC LOCATIONS

Corporate	-	Wexford, PA	Camp Hill Division	-	Camp Hill, PA
Pittsburgh Division	-	Warrendale, PA	Knoxville Division	-	Maryville, TN
Erie Division	-	Erie, PA / Wilkes-Barre, PA	Venice Division	-	Venice, FL / Fort Myers, FL
New Castle Division	-	New Castle, PA	South Carolina Division	-	New Ellenton, SC
Kentucky Testing Division	-	Louisville, KY / Evansville, IN	Fayetteville Division	-	Fayetteville, NC
Massachusetts Division	-	Marlboro, MA	Southern Testing Division	-	Wilson, NC
Gascoyne Division	-	Baltimore, MD	Hauser Division	-	Boulder, CO
Corona Division	-	Corona, CA	Friend Laboratory	-	Waverly, NY
South Jersey Division	-	Tumersville, NJ			



COOLER INSPECTION

Date: Thursday, July 27, 2006

Client Name **WESTON - VERNON HILLS**

Date / Time Received: **6/29/2006 10:30:00 AM**

Work Order Number **ME0606A63**

Received by **DP**

Checklist completed b **DP** | **6/29/2006 10:58:49 AM**

Reviewed by **CG** | **6/29/2006 5:08:11 PM**

Carrier name **FedEx**

- After-Hour Arrival? Yes No
- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody included sufficient client identification? Yes No
- Chain of custody included sufficient sample collector information? Yes No
- Chain of custody included a sample description? Yes No
- Chain of custody agrees with sample labels? Yes No
- Chain of custody identified the appropriate matrix? Yes No
- Chain of custody included date of collection? Yes No
- Chain of custody included time of collection? Yes No
- Chain of custody identified the appropriate number of containers? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Chain of custody identified the appropriate preservatives? Yes No
- Samples properly preserved? Yes No

If No, adjusted by? _____

Date/Time _____

- Chain of custody included the requested analyses? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Samples received on ice? Yes No
- Container/Temp Blank temperature Temp: 4 °C
- VOA vials have zero headspace? No VOA vials submitted Yes No

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

General Comments: _____

Sample ID	Client Sample ID	Comments
ME0606A63-01A	MA3-TG1-1-062806-16	
ME0606A63-02A	MA3-TG1-2-062806-17	
ME0606A63-03A	MA3-TG1-3-062806-18	
ME0606A63-04A	MA3-TG2-1-062806-13	
ME0606A63-05A	MA3-TG2-2-062806-14	
ME0606A63-06A	MA3-TG2-3-062806-15	
ME0606A63-07A	MA3-TG3-1-062806-10	
ME0606A63-08A	MA3-TG3-2-062806-11	
ME0606A63-09A	MA3-TG3-3-062806-12	
ME0606A63-10A	MA3-TG4-1-062806-7	
ME0606A63-11A	MA3-TG4-2-062806-8	
ME0606A63-12A	MA3-TG4-3-062806-9	

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Sample ID	Client Sample ID	Comments
ME0606A63-13A	MA3-TG5-1-062806-1	
ME0606A63-14A	MA3-TG5-2-062806-2	
ME0606A63-15A	MA3-TG5-3-062806-3	
ME0606A63-16A	MA3-TG6-3-062806-6	
ME0606A63-17A	MA3-TG6-1-062806-4	
ME0606A63-18A	MA3-TG6-2-062806-5	

COC ID: COC7-06282006

Chain of Custody Record



Client **Kerr McGee**
 Site Name **Moss American** Contact Name **Tom Green**
 W. O. **02687.007.007.0001** Contact Phone No. **847-918-4142**
 Lab **MICROBAC LABS** Lab Contact **N. MCDONALD**
 TAT **PER QUOTE** Lab Phone **219-932-1770**

ab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected	MICROBIAL ENUMERATIO N	Filtered	Container	Preservative	0606A13
							00ml-Sterile Pl	N/A		
	MAJ-TG1-1-062806-16	W		N	6/28/2006 16:45	1				01-A
	MAJ-TG1-2-062806-17	W		N	6/28/2006 16:55	1				02-A
	MAJ-TG1-3-062806-18	W		N	6/28/2006 17:15	1				03-A
	MAJ-TG2-1-062806-13	W		N	6/28/2006 15:40	1				04-A
	MAJ-TG2-2-062806-14	W		N	6/28/2006 15:55	1				05-A
	MAJ-TG2-3-062806-15	W		N	6/28/2006 16:05	1				06-A
	MAJ-TG3-1-062806-10	W		N	6/28/2006 14:00	1				07-A
	MAJ-TG3-2-062806-11	W		N	6/28/2006 14:20	1				08-A
	MAJ-TG3-3-062806-12	W		N	6/28/2006 14:40	1				09-A
	MAJ-TG4-1-062806-7	W		N	6/28/2006 12:15	1				10-A
	MAJ-TG4-2-062806-8	W		N	6/28/2006 12:25	1				11-A
	MAJ-TG4-3-062806-8-MSD	W		Y	6/28/2006 12:25	2				
	MAJ-TG4-3-062806-9	W		N	6/28/2006 12:40	1				12-A
	MAJ-TG4-3-062806-9-DP	W		N	6/28/2006 12:40	1				
	MAJ-TG5-1-062806-1	W		N	6/28/2006 09:20	1				13-A
	MAJ-TG5-2-062806-2	W		N	6/28/2006 09:35	1				14-A
	MAJ-TG5-3-062806-3	W		N	6/28/2006 09:50	1				15-A
	MAJ-TG6-3-062806-6	W		N	6/28/2006 11:10	1				16-A

Remarks/Comments

Sampled By _____

Lab Use Only

Temp of Cooler when Received, C
 1 2 3 4 5

COC Tape was present on outer package Y N
 Received in good condition Y N
 COC Tape was unbroken on outer package Y N
 Labels indicate Properly Preserved Y N
 COC Tape was present on sample Y N
 Received within Holding Time Y N
 COC Tape was unbroken on sample Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time

J. P. M. 6-29-06/1000

ME0606A03
 Kerr McGee / Moss American
 Tom Green
 WESTON - VERNON HILLS 7/21/2006
 CG

COC ID: COC1-06282006

Chain of Custody Record



Client **Kerr McGee**
 Site Name **Moss American**
 W. O. **02667.007.007.0001**
 Lab **LANCASTER LABS**
 TAT **PER QUOTE**

Contact Name **Tom Graan**
 Contact Phone No. **847-918-4142**
 Lab Contact **C. SWEIGART**
 Lab Phone **717-656-2308 X1527**

3502-NH3	3512-TKN, 365.1-TP, 4102-COD	3532-NO2	3532-NO3	3653-OR, 405.1-BOD	415.1-TOC	8021B-BTEX	8310-PAHS	MICROBIAL ENUMERATION
90ml-Round G	60ml-Round G	0ml-Glass Vi	0ml-Glass Vi	1000ml-Plastic	20ml-Round A	20ml-Glass Vi	0ml-Amber G	0ml-Sterile P
H2SO4	H2SO4	N/A	H2SO4	N/A	H3PO4	HCl	N/A	N/A
1	1	1	1	1	1	3	2	1
1	1	1	1	1	1	3	2	1

0606/163
17A
18A

Lab ID	Sample ID	Matrix	PID	MS/MSD	Date-Time Collected
	MA3-TG6-1-062806-4	W		N	6/28/2006 10:40
	MA3-TG6-2-062806-5	W		N	6/28/2006 10:55

Remarks/Comments

Sampled By Cestillo

Lab Use Only

Temp of Cooler when Received, C

1	2	3	4	5
---	---	---	---	---

COC Tape was present on outer package Y N
 COC Tape was unbroken on outer package Y N
 COC Tape was present on sample Y N
 COC Tape was unbroken on sample Y N

Received in good condition Y N
 Labels indicate Properly Preserved Y N
 Received within Holding Time Y N

Relinquished By	Date / Time	Received By	Date / Time	Relinquished By	Date / Time	Received By	Date / Time
<i>[Signature]</i>	6/28/06 1800						
						<i>[Signature]</i>	6-29-06/1020